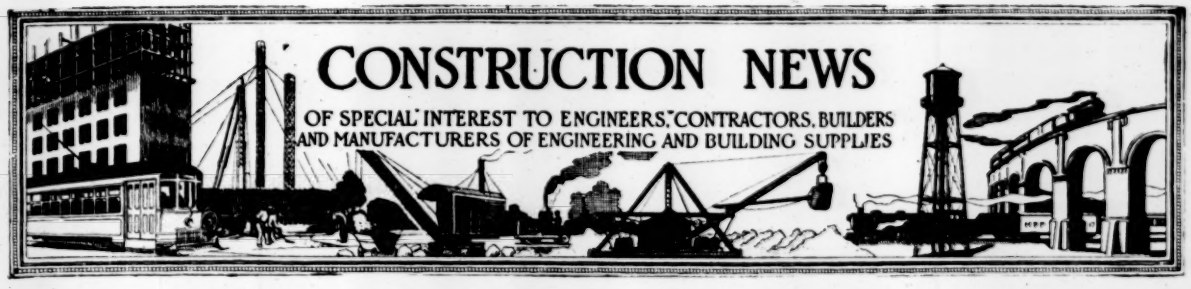
CONSTRUCTION NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Sept. 1	Springwells, Mich.	Aug. 19
Sept. 2	Allendale, N. J. Adv. Aug. 19 and 26.	Aug. 26
Sept. 7	Hightstown, N. J. Adv. Aug. 26.	Aug. 26
Sept. 8	Tunica, Miss.	Aug. 19

SEWERS

Aug. 31	Portland, Me. Adv. Aug. 26.	Aug. 26
Aug. 31	St. Louis, Mo.	Aug. 12
Aug. 31	Pawtucket, R. I. Adv. Aug. 19.	Aug. 19
Sept. 1	Haxton, Col.	Aug. 26
Sept. 1	Yuma, Col.	Aug. 26
Sept. 7	Patterson, N. J.	Aug. 26
Sept. 7	Plainfield, N. J. Adv. Aug. 26.	Aug. 26
Sept. 7	Wash., D. C.	Aug. 19
Sept. 9	Wabasso, Minn.	Aug. 26
Oct. 4	Pontiac, Mich.	Aug. 26

BRIDGES

Aug. 30	Ebensburg, Pa.	Aug. 19
Aug. 31	Wyoming	Aug. 26
Aug. 31	New Jersey Adv. Aug. 12 and 19.	Aug. 19
Aug. 31	Alabama	Aug. 26
Sept. 1	Harrisburg, Pa.	Aug. 26
Sept. 2	Pocahontas, Ia.	Aug. 26
Sept. 3	Mt Vernon, N. Y. Adv. Aug. 19 and 26.	Aug. 19
Sept. 3	Topeka, Kan.	Aug. 26
Sept. 3	Moundsville, W. Va.	Aug. 19
Sept. 4	Crookston, Minn.	Aug. 26
Sept. 6	Nenana, Alaska	Aug. 5
Sept. 6	Burlington, Ont.	Aug. 12
Sept. 6	Indiana	Aug. 26
Sept. 7	Nanty-Glo, Pa.	Aug. 26
Sept. 7	Indiana	Aug. 26
Sept. 10	Victoria, B. C.	Aug. 12
Sept. 13	Belleville, Kan.	Aug. 26
Sept. 14	Lock Haven, Pa. Adv. Aug. 26.	Aug. 26
Sept. 14	Perry, Ga.	Aug. 26
Sept. 15	Providence, R. I. Adv. Aug. 26.	Aug. 26
Sept. 15	Iola, Kan.	Aug. 26
Sept. 15	Portsmouth, N. H. Adv. Aug. 12 and 19.	Aug. 12
Sept. 30	New Orleans, La.	Aug. 26

STREETS AND ROADS

Aug. 29	North Bergen, N. J.	Aug. 5
Aug. 30	Richfield, Minn.	Aug. 19
Aug. 30	Camden, N. J.	Aug. 19
Aug. 30	Princeton, W. Va.	Aug. 19
Aug. 30	Eudora, Ark	Aug. 19
Aug. 30	Ft. Scott, Kan.	Aug. 26
Aug. 30	Newton, Ia. Adv. Aug. 26.	Aug. 26
Aug. 30	St. George, S. I., N. Y.	Aug. 26
Aug. 30	Rayville, La.	Aug. 26
Aug. 31	St. George, S. I., N. Y.	Aug. 26
Aug. 31	New York, N. Y.	Aug. 26
Aug. 31	Cherokee, Ia.	Aug. 26
Aug. 31	Maryland Adv. Aug. 19 and 26.	Aug. 26
Aug. 31	Cleburne, Tex.	Aug. 26
Aug. 31	Ionia, Mich.	Aug. 26
Aug. 31	Long Branch, N. J. Adv. Aug. 12 to 26.	Aug. 19
Aug. 31	New Jersey Adv. Aug. 12 and 19.	Aug. 19
Aug. 31	Columbus, O.	Aug. 19
Aug. 31	South Dakota	Aug. 19
Sept. 1	Wilson, N. C. Adv. Aug. 12 to 26.	Aug. 12
Sept. 1	Madison, S. D.	Aug. 19
Sept. 1	Brooklyn, N. Y.	Aug. 26
Sept. 1	Missouri	Aug. 26
Sept. 1	Valleyfield, Que.	Aug. 19
Sept. 1	Hughesville, Pa.	Aug. 19
Sept. 1	Michigan	Aug. 26
Sept. 2	Muskegon, Mich.	Aug. 26
Sept. 3	Olathe, Kan.	Aug. 5
Sept. 3	Jourdanton, Tex.	Aug. 19
Sept. 3	Long Island City, N. Y.	Aug. 26
Sept. 3	Hillsdale, Mich.	Aug. 26
Sept. 3	Grosse Pointe Park (Detroit P. O.), Mich.	Aug. 26
Sept. 4	Crookston, Minn.	Aug. 26
Sept. 4	Hillsboro, Tex.	Aug. 26
Sept. 4	Ft. Wayne, Ind.	Aug. 19
Sept. 6	Indiana	Aug. 19
Sept. 6	Bethany, Mo.	Aug. 26
Sept. 7	Indiana	Aug. 19
Sept. 7	Greenfield, Ind.	Aug. 12
Sept. 7	Aitkin, Minn.	Aug. 12
Sept. 7	Atlanta, Mich.	Aug. 26
Sept. 7	Carlton, Minn.	Aug. 26
Sept. 7	Red Bank, N. J. Adv. Aug. 26.	Aug. 26
Sept. 8	Cottonwood Falls, Kan.	Aug. 12
Sept. 8	North Arlington (Arlington P. O.), N. J.	Aug. 26
Sept. 9	Dodge City, Kan.	Aug. 19
Sept. 9	Jersey City, N. J.	Aug. 26
Sept. 10	Shakopee, Minn.	Aug. 19
Sept. 10	New Jersey Adv. Aug. 26.	Aug. 26
Sept. 13	Jasper, Tex.	Aug. 26
Sept. 13	Minneapolis, Minn.	Aug. 26
Sept. 14	Fergus Falls, Minn.	Aug. 19
Sept. 14	Charleston, W. Va.	Aug. 19
Sept. 14	Garnett, Kan.	Aug. 19
Sept. 16	Girard, Kan.	Aug. 26
Sept. 21	St. George, S. C.	Aug. 12

RAILWAYS

Sept. 3	Nova Scotia	Aug. 26

EXCAVATION AND DREDGING

Aug. 30	Harlan, Ia.	Aug. 26
Aug. 31	Fairmont, Minn.	Aug. 26
Aug. 31	Jersey City, N. J.	Aug. 26
Sept. 1	Belzoni, Miss.	Aug. 26
Sept. 2	Covington, Tenn.	Aug. 26
Sept. 3	Marshalltown, Ia.	Aug. 19
Sept. 4	Crookston, Minn.	Aug. 26
Sept. 10	Corsica, S. D. Adv. Aug. 19 and 26.	Aug. 19

INDUSTRIAL WORKS

Aug. 31	Wrentham, Mass.	Aug. 26
Aug. 31	New Orleans, La. Adv. Aug. 19 and 26.	Aug. 19
Sept. 1	Hutchinson, Kan.	Feb. 19
Sept. 1	Long Island City, N. Y.	Aug. 26
Sept. 7	New Orleans, La.	Aug. 26
Sept. 7	New York, N. Y.	Aug. 26
Sept. 8	Minnewaukon, N. D.	Aug. 26
Sept. 15	Ossining, N. Y.	Aug. 19
Sept. 29	Buffalo, N. Y.	Aug. 26

BUILDINGS

Aug. 30	Petersburg, Ind.	Aug. 12
Aug. 30	Austin, Tex.	Aug. 26
Aug. 30	Decorah, Ia.	Aug. 26
Aug. 30	McKeesport, Pa.	Aug. 19
Aug. 31	Manchester, N. H.	Aug. 12
Sept. 1	Cedar Rapids, Ia.	Aug. 5
Sept. 2	Jeanette, Pa.	Aug. 12
Sept. 3	Ft. Wayne, Ind.	July 29
Sept. 3	Ollie, Ia.	Aug. 12
Sept. 6	Detroit, Mich.	Aug. 26
Sept. 7	Hartford, Conn.	Aug. 26
Sept. 7	Marmarth, N. D.	Aug. 19
Sept. 7	Windsor, Conn.	Aug. 19
Sept. 8	Wash., D. C.	Aug. 19
Sept. 8	Detroit, Mich.	Aug. 26
Sept. 10	West Hartford (Hartford P. O.), Conn.	Aug. 19
Sept. 10	Great Neck, N. Y.	Aug. 26
Sept. 14	Montevideo, Minn.	Aug. 26
Sept. 14	Glassboro, N. J.	Aug. 26
Sept. 15	Edinburg, Tex.	Aug. 26
Sept. 15	Ossining, N. Y.	Aug. 26
Sept. 15	Denver, Col.	Aug. 12
Sept. 15	Denver, Col.	Aug. 5
Sept. 20	Brooklyn, N. Y.	Aug. 26

FEDERAL GOVERNMENT WORK

Aug. 30	Stern Wheel Steamboat — St. Louis, Mo.	Aug. 5
Aug. 30	School and Assembly Hall —Tahlequah, Okla. Adv. Aug. 12 to 26.	Aug. 19
Aug. 30	Road Work—Oregon	Aug. 26
Aug. 31	Remodeling Post Office—Astoria, Ore.	Aug. 12
Aug. 31	Bridge—Wash., D. C.	Aug. 19
Aug. 31	Lumber Storehouse—Philadelphia, Pa. Adv. Aug. 19 and 26.	Aug. 19
Sept. 1	Mechanics Shop, Filling, Shell and Magazine House —Spec. 4121—Mare Island, Cal.	Aug. 19
Sept. 3	Post Office—Columbia, S. C.	Aug. 5
Sept. 3	Levee Work — Vicksburg, Miss. Adv. Aug. 26.	Aug. 26
Sept. 4	Building, etc. — Ogden, Utah Adv. Aug. 19 and 26.	Aug. 19
Sept. 7	Removing Wreck—Wilmington, Del. Adv. Aug. 26.	Aug. 26
Sept. 8	Improving Hospital—Spec. 4262—Paris Island, S. C.	Aug. 26
Sept. 9	Structural Steel—Louisville, Ky. Adv. Aug. 19 and 26.	Aug. 26
Sept. 13	Barges—Nashville, Tenn. Adv. Aug. 1 9and 26.	Aug. 26
Sept. 14	Electrid Freight Lift etc.—St. Paul, Minn.	Aug. 26
Sept. 15	Lifeboat House and Accessories—Marblehead, O.	Aug. 26
Sept. 15	Pontoon Catamarans—Jacksonville, Fla. Adv. Aug. 26.	Aug. 26
Sept. 15	Jetty—Jacksonville, Fla. Adv. Aug. 19 and 26.	Aug. 26
Sept. 16	Jetty—New Oreans, La. Adv. Aug. 19 and 26.	Aug.19
Sept. 25	Harbor Development—Spec. 4136—Great Lakes, Ill.	Aug. 19

MISCELLANEOUS

Aug. 31	Wharf—Owen Sound, Ont.	Aug. 12
Aug. 31	Railway Ties — Toronto, Ont.	Aug. 19
Aug. 31	Riprap — Cape May City, N. J. Adv. Aug. 26.	Aug. 26
Aug. 31	Tank—Hightstown, N. J. Adv. Aug. 26.	Aug. 26
Aug. 31	Paving and Bridge Materials —Cleburne, Tex.	Aug. 26
Aug. 31	Swimming Pool, etc.—Pittsburgh, Pa.	Aug. 26
Aug. 31	Road Materials—New York, N. Y.	Aug. 26
Aug. 31	Yard—New York, N. Y.	Aug. 26
Sept. 1	Street Lighting System — Wichita Falls, Tex.	Aug. 26
Sept. 1	Heating System, etc.—Syracuse, N. Y.	Aug. 26
Sept. 2	Pier and Approach—Brooklyn, N. Y.	Aug. 26
Sept. 2	Pier—New York, N. Y.	Aug. 26
Sept. 2	Breakwater—Quaco, N. B.	Aug. 19
Sept. 2	Sluice Gates—Sacramento, Cal.	Aug. 19
Sept. 3	Wharf—Ottawa, Ont.	Aug. 19
Sept. 3	Sanitary Equipment—Columbus, O.	Aug. 19
Sept. 3	Motor Driven Trucks, etc. —New York, N. Y.	Aug. 26

Bids Close		See Eng. News-Record
Sept. 3	Underground Cables—New York, N. Y.	Aug. 26
Sept. 6	Retaining Wall, etc.—Cleveland, O.	Aug. 12
Sept. 7	Dikes—St. Louis, Mo.	Aug. 19
Sept. 7	Wharf—Thessalon, Ont.	Aug.26
Sept. 8	Breakwater—West Chezzetcook, N. S.	Aug. 26
Sept. 8	Installing Domestic Hot Water System—Bath, N. Y.	Aug. 26
Sept. 9	Terminal—Buffalo, N. Y. Adv. Aug. 5 to 26.	Aug. 12
Sept. 9	Terminal — Rouses Point, N. Y. Adv. Aug. 5 to 26.	Aug. 12
Sept. 14	Foundation—Phila., Pa. Adv. Aug 26.	Aug. 26
Sept. 15	Lighting Equipment—Detroit, Mich.	Aug. 26
Sept. 21	Dam, Pump House, etc.—Norfolk, Va. Adv. Aug. 26.	Aug. 26
Sept. 22	Breakwater—Chicago, Ill. Adv. Aug. 19 and 26.	Aug. 19
Sept. 30	Transformers, etc.—Sacramento, Cal.	Aug. 19

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Brockton—City plans to build filter bed. About $150,000.

Md., Aberdeen—See "Sewers."

Fla., Clermont—City voted $30,000 bonds to build waterworks system.

La., Cedar Grove—Town voted $125,000 bonds to improve sewerage system. B. M. Hendricks, mayor.

Mich., Detroit—City plans to build extensions to waterworks system in Marjorie Ave. from Center Line to Van Dyke Aves., Wayburn Ave. north of Warren Ave., Guthrie Ave. west of Center Line Ave. and Warren Ave. from Alter Rd. to Wayburn Ave., to include laying 6-16 in. c.i. pipe, furnishing valves, gate boxes, etc. About $50,000. Pipe will be purchased and laid by day labor under supervision of Water Bd. Supt. T. A. Leisen, Waterworks Park, engr.

Mich., Grand Rapids—City having plans prepared building extensions to waterworks system, to include pump house, 2 pumps with 8,000,000 gal. daily capacity, addition to filtration plant, 3,000,000 gal. clear water well and head house. C. A. Paige, city engr.

Wis., New Holstein—City had plans prepared and receives bids in spring building waterworks system, to include 80,000 gal. steel tank, artesian well, 6-10 in. c.i. pipe, etc. Bonds for $40,000 voted for project. L. Heppe, clk. J. Donohue, North 8th St., Sheboygan, engr.

Minn., Eveleth—City plans to build filter plant About $50,000.

Kan., Topeka — City retained Black & Veatch, engrs., Interstate Bldg., Kansas City, Mo., to prepare plans for water purification plant. About $400,000. Noted Jan. 22.

S. D., Madison—See "Sewers."

Mo., Fayette—City rejected bids received Aug. 12, building 14,000 ft. 8 in. c.i. or wood pipe line and earth filled dam. About $75,000. Work will be readvertised. Johnson & Benham, Firestone Bldg., Kansas City, consult. engrs. Noted Aug. 12.

Okla., Fairfax—City retained V. V. Long & Co., engrs., 1300 Colcord Bldg., Oklahoma, to prepare plans for extensions to waterworks system. About $50,000. E. C. Quigley, clk.

BIDS DESIRED

N. J., Allendale—Until Sept. 2, by Boro. Council, Municipal Bldg., furnishing and laying 1,100 ft. water mains in Crescent Ave. W. H. Mallinson, chn. L. M. Young, boro. clk.; advertised in this issue.

N. J., Hightstown—Until Sept. 7 (change of date), by mayor and Boro. Council, building and equipping waterworks pumping station and connecting same to certain wells. G. P. Dennis, clk. W. S. Coulter, 114 Liberty St., New York City, engr.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. C., Spindale**—Stonecutter Mills Co. let contract building waterwork and sewerage systems to supply about 75 houses, to Potter & Shackleford, Greenville, S. C.

★**O., Akron**—City let contract building 10 large filter beds, each having 2,000,000 gal. daily capacity, to Garrett Constr. Co. Kent, $313,624.

★**Wash., Everett**—City received no bids Aug. 10, installing water system. About $40,000. Work will be done by day labor.

★**N. S., Windsor**—Town let contract excavating, backfilling and laying 11,000 ft. 12 in. c.i. pipe, to D. Sutherland, c/o city clk., Windsor. About $17,050.

Sewers

PROPOSED WORK

Mass., West Springfield (Springfield P. O.)—Town plans to build sewerage system in south end section. About $45,000. Stelle Bros., Mitteneague, engrs.

R. I., West Warwick—City having preliminary plans prepared by S. M. Gray, engr., 933 Grosvenor Bldg., Providence, for new sewerage system. About $500,000.

Md., Aberdeen — City voted $100,000 bonds to build sewerage and waterworks systems.

Tex., Dallas—City having surveys made for finishing uncompleted portion of 88 ft. storm sewer in Lamar St. from Cadiz St. to Terminal R.R. About $150,000. G. Fairtrace, city engr.

Ill., Maron—Bd. Local Impvts. soon receives bids building sewerage system and sewage disposal plant, 8-30 in. pipe. About $83,000. Miller, Holbrook & Warren, Millikin Bldg., Decatur, engrs.

Minn., North Branch—A. Nordstrom, city clk., opens bids about Sept. 1, building sewerage and waterworks systems, involving 25,000 ft. sewer pipe, deep well, pump and tower tank. About $75,000. J. F. Druar, 512 Globe Bldg., St. Paul, engr. Noted July 8.

S. D., Madison—City election Sept. 14 to vote on $100,000 bonds to extend sewer and waterworks systems.

La., Cedar Grove—Town voted $125,000 bonds to improve waterworks system. B. M. Hendricks, mayor.

Mich., Pontiac—City rejected bids Aug. 9, building Sects. 1, 2 and 3 of Trunk Sanitary Sewerage System. Work will be re-advertised. C. W. Hubbell, 2348 Penobscot Bldg., Detroit, engr. Noted July 29.

Mo., Kansas City — City plans to build new sanitary sewerage system in Blue Valley Dist. Cost between $4,000,000 and $5,000,000. Contract to be let in sections.

Mo., Plattsburg—City having plans prepared building extensions to sewers in various streets. About $50,000. E. T. Archer & Co., Kansas City, Mo., engrs.

Okla., Fairfax—City retained V. V. Long & Co., engrs., 1300 Colcord Bldg., Oklahoma, to prepare plans for sewage disposal plant. About $30,000. E. C. Quigler, clk.

Okla., Lawton—City had plans prepared building complete sewage disposal plant and sewage pumping station. About $200,000. J. C. Talmadge, comr. pub. property. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma, engrs.

BIDS DESIRED

Me., Portland—Until Aug. 31, at office of E. M. Hunt, Comr. Pub. Wks., City Hall, building Sect. 4, Fall Brook Branch Sewer and 1,268 ft. 24 in. pipe in Allen Ave.; advertised in this issue.

N. J., Paterson—Until Sept. 7, by Passaic Valley Sewerage Comrs., 128 Market St., Newark, building Sect. 21, Prospect St. Branch Sewer, here, involving 1,352 lin.ft. earth excav. and refilling, 250 cu.yd. rock excav., 150 cu.yd. Portland cement mortar, 70 cu.yd. brick masonry, 1,160 lin.ft. c.i. pipes and specials, 300 ton riprap, etc. J. H. Quigg, clk.

N. J., Plainfield—Until Sept 7, by Common Council, building storm sewer in Central Ave. J. J. Carroll, clk; advertised in this issue.

Mich., Pontiac—Until Oct. 4, by E. F. Luebke, city clk., building trunk sanitary sewers in various streets; advertised in this issue.

Minn., Wabasso—Until Sept. 9, by G. A. Goblirsch, village clk., building sewage treatment plant and general sewer Dist. Sewer 1 involves 2,272 ft. 10-12 in. pipe, 4-10 ft. deep, Laterals Dist. 1, 8,110 ft. 8-1 in. pipe, 4-12 ft. deep; general sewer, 9 ft. 12 in. pipe 4-8 ft. deep, etc., Abo $45,000. J. F. Druar, 512 Globe Bldg., S Paul, engr. Noted July 8.

Col., Haxton—Until Sept. 1, by City Coun cil, building sanitary sewers and septic tan with necessary manholes, etc., involvin 20,500 ft. 8 in. vitr. clay pipe and 7,000 f 10 in. segmental block. About $65,000. D. Salisbury, 1415 East Colfax Ave., Denve engr.

Col., Yuma—Until Sept. 1, by City Coun cil, building sanitary sewers and septic tan with necessary manholes, etc., involving 300 ft. c.i. pipe, 20,000 ft. 8 in. and 9,20 ft. 10 in. vitr. clay pipe. About $80,000 R. D. Salisbury 1415 East Colfax Ave. Denver, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Boston—City received bids Aug. 11 building sewers in Saville and Wren Sts. from J. Barletta, $40,962; J. Todesca, Roslindale, $41,889; A. Sefalo, $42,771. Noted Aug. 12.

★**Mass., West Roxbury** (Boston P. O.)—City of Boston let contract building Saville and Wren Sts. Sewerage System to J. Barletta, 364 Hanover St., Boston, $40,000; River St. Sewerage System to F. Drinkwater, 35 Hemlock St., $25,000. Noted July 29.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., received bids Aug. 16 building sewer in (a) Flushing Ave., (b) Prospect St., (c) Laurel Hill Ave., from Rotti & Co., Woodhaven, (a) $16,915; A. Paino, 2016 East 14th St., Coney Island (a) $18,791; F. L. Paino, Woodhaven, (a) $20,427, (c) $440,292; J. H. Johnson, (b) $3,764; Peace Bros., 20 Main St., Flushing, (a) $27,748, (b) $3,933, (c) $463,403; C. Kurth, (b) $4,164; Litchfield Constr. Co. 280 Madison Ave., New York City, (c) $442,216. Noted Aug. 12.

★**N. Y., New York**—H. Bruckner, pres. Bronx Boro., let contract building sewer and appurtenances in Leland, Wood and East Tremont Aves., to A. T. Del Balso, $33,245. Noted Aug. 19.

★**O., Cleveland**—City let contract building sewers in Central Ave. from East 14th to East 30th Sts., to Manson Co., 345 The Arcade, $80,401; Lambert Ave. from East 131st to East 138th Sts., to A. Lanese & Co., 224 Guardian Bldg., $5,223; East 105th St. from Kinsman Rd. southeast to Park Heights Rd., to Yahya Bros., 1138 Bolivar Rd., $3,573. Noted June 17.

★**Wis., Cumberland**—City will build sanitary sewerage system and sewage disposal plant. About $80,000. Work will be done by day labor. Noted July 8.

★**Wis., Kilbourn**—Village let contract laying sewers here, to H. E. Wolff, Winona. Noted July 22.

★**Minn., Pine Island**—City let contract building Dist. Sewer 1, involving 2,969 lin ft. 8-15 in. pipe, 9-13 ft. deep; laterals, Dist 1, 13,334 lin.ft. 8-10 in. pipe, 5-15 in. deep; Dist. Sewer 2, 1,909 lin.ft. 8-15 in. pipe, 7-15 ft. deep; Laterals, Dist. 2, 3,441 lin.ft 8-10 in. pipe, 5-17 ft. deep, to J. G. Rae, Tracy, $40,577. Noted July 22.

★**Minn., Rush City** — City let contract building sanitary sewerage system, involving 19,025 lin.ft. 8-15 in. pipe, etc., to Woodrich Constr. Co., Minneapolis, $42,092. Noted July 29.

Ore., Portland—City received bids Aug. 11, building (a) Ainsworth Ave. and Kerby St. Sewerage System, (b) Killingsworth and Vernon Aves. Sewerage System, (c) building sewer in East 18th St. from Prescott to Emerson Sts., (d) East 17th St. from Wygant to Alberta Sts., (e) East 20th St. from Prescott to Alberta Sts., (f) East 65th St. from Hassalo to Willow Sts., (1) cement pipe, (2) vitr., from Azar & Co. (a1) $39,783, (b1) $29,271; J. Keating, (a1) $40,217, (b1) $28,313, (e1) $5,271; Lundstrom & Carlson, (b2) $29,111; A. A Kaady, 3421 50th St., S. E., (c1) $9,501 (d1) $1,413, (e1) $4,896, (f1) $1,515; Portland Realty & Trust Co., Ry. Exch. Bldg. (c) $10,451; Mehemarle & Co., (d) $1,586 (e1) $4,763; Lane & Pasanen, (f2) $1,548

Bridges

PROPOSED WORK

Mass., Andover—Town and Essex C (Salem) having plans prepared for rein con. bridge over Shawsheen River. About $50,000. R. M. Evans, Salem, engr.

Mass., Hoyloke—Dept. Pub. Wks. plans to repair bridges over canal. About $3 000. T. J. McCarthy, city engr.

Bridges (Continued)

N. Y., Marcellus—Town plans to build 60 ft. span concrete arch bridge, 30 ft. wide, over 9 mi. creek. About $25,000. Engineer not selected.

Wis., Sauk City—City having plans prepared building 1,000 ft. concrete and steel bridge, with 20 ft. roadway, across Wisconsin River. About $210,000. State will appropriate $70,000 toward cost, village and Sauk Co., $70,000, town of Roxbury and Dane Co., $70,000.

Wis, Sparta—Monroe Co. had plans prepared building Lies Bridge, 16 x 20 ft., Jefferson Twp., cost, $3,500; Munson Bridge, 16 x 24 ft., Portland Twp., $2,750; Brown Bridge, 20 x 22 ft., Lafayette Twp., $3,450; Schindler No. 1 Bridge, 16 x 20 ft., Wellington Twp., $2,150; Buholtz Bridge, 20 x 20 ft., Wellington Twp., $3,150; Rowan Bridge, 16 x 16 ft., Lafayette Twp., $3,000; Peters Bridge, 16 x 26 ft., Jefferson Twp., $3,700; Kanable Bridge, 16 x 20 ft., Jefferson Twp., $3,500; Linchan Bridge, 16 x 18 ft., Tomah Twp., $2,650; Hill Bridge, 14 x 16 ft., Tomah Twp., $2,650; Thorson Bridge, 16 x 18 ft., Portland Twp., $2,400; Ruhland Bridge, 16 x 22 ft., Portland Twp., $2,400; Mayers Bridge, 16 x 16 ft., Adrian Twp., $2,400; Schindler No. 2 Bridge, 14 x 20 ft. Wellington Twp., $2,700; all bridges I-beam type with mass concrete abutments on wood piles. C. H. Millard, Sparta, comr. Noted June 24.

Tex., Wharton—Wharton Co. having plans prepared building 880 ft. rein.-con. bridge over San Bernardo River, to have 16 ft. roadway, involving 726 cu.yd. structural excav., 1,770 cu.yd. Class "A" rein.-con. and 153,360 lb. reinforcing steel. About $78,000. Nagle, Witt & Rollins Eng. Co., Gaston Bldg., Dallas, engrs.

Que., Maniwaki—Dept. Pub. Wks., Quebec, soon receives bids building steel bridge over Gatineau River, here. About $100,000. A. Galipeau, c/o Dept. Pub. Wks., engr.

BIDS DESIRED

R. I., Providence—Until Sept. 15, at office of Water Supply Bd., City Hall, building rein.-con. girder bridge of 35 ft. span and adjacent embankment, in North Scituate. F. E. Winsor, ch. engr.; advertised in this issue.

N. J., Newark—Essex Co. and Morris Co. (Morristown) receiving bids building Hanover Cook and Columbia Bridge over Passaic River. About $70,000. F. J. Reimer, Essex Co. Court House, engr. Noted July 29.

Pa., Harrisburg—Until Sept. 1 (change of date), by T. W. Templeton, supt. Pub. Grounds & Bldgs., constructing Soldiers and Sailors Memorial Bridge, in Capitol Park. Noted July 29.

Pa., Lock Haven—Until Sept. 14, by T. W. Templeton, supt. Pub. Grounds & Bldgs., Capitol Bldg., Harrisburg, furnishing labor and material rebuilding superstructure and repairing abutments and piers 1, 2 and 3 and necessary work in connection with approaches of bridge over Susquehanna River, here. F. A. Young, 127 Hanover St., Wilkes-Barre, engr.; advertised in this issue.

Pa., Nanty-Glo—Until Sept. 7, by Boro. Council of Ebensburg, building concrete and stone culvert on Roberts St., here. About $25,000. D. E. Bradley, Trust Bldg., Ebensburg, engr.

Ga., Perry—Until Sept. 14, by Bd. Comrs. Rds. and Revenues, Houston Co., building rein.-con. bridge at Big Indian Creek, near here. Work involves 128 cu.yd. wet and dry excav., 4,505 cu.yd. borrow, 306 cu.yd. sand clay surfacing, 427.7 cu.yd. Class "A" and 107.5 cu.yd. Class "B" concrete, 47,901 lb. reinforcing steel, 576 sq.yd. rock asphalt surfacing.

Ia., Pocahontas—Until Sept. 2, by Comrs. Pocahontas Co., building three 16 ft., one 22 ft. and one 32 ft. I-beam spans, three 50 ft. and two 55 ft. pony truss spans. Work involves 1,031 cu.yd. rein.con., 63,955 lb. steel bars, 167,390 lb. structural steel, etc. About $50,000. A. L. Thornton, co. engr.

Minn., Crookston—Until Sept. 4, by H. J. Welte, aud. Polk Co., building Bridge 3408, 30 ft. rein.-con. deck girder, Bridge 3411, 18 x 40 ft. low truss, rein.-con. abutments, Bridge 3422, 35 ft. rein.-con. beam span, rein.-con. abutments over S and Hill River; Bridge 3423, 23 ft. rein.-con. deck girder, rein.-con. abutments; Bridge 3424, 18 x 45 ft. low truss, rein.-con. abutments over Burnham Creek; Bridge 3428, 18 x 45 ft. truss span, rein.-con. abutments, Bridge 3429, 18 x 20 ft., rein.-con. abutments. About $27,000. S. Steenerson, co. engr.

Kan., Belleville—Until Sept. 13, by Comrs. Republic Co., building one 3 span steel bridge, 8 rein.-con. bridges and 2 rein.-con. culverts. E. A. D. Parker, co-engr. Noted Aug. 5.

Kan., Topeka—Until Sept. 3, by Comrs. Shawnee Co., building 130 ft. span rein.-con. arch bridge, 20 ft. roadway, near Wakarusa. Work involves 792 cu.yd. rein.-con., 31,313 lb. steel bars, 135,300 lb. structural steel, etc. About $40,000. J. E. Williams, co. engr. March Eng. Co., 205 Masonic Temple, Des Moines, designing engrs.

Wyoming—Until Aug. 31, at office of D S. McCalman, supt. State Highway Comn., Capitol Bldg., Cheyenne, building following projects: Ln-4, Federal Aid Project 22, 650 ft. steel bridge over Snake River, near Wilson, Lincoln Co., work includes taking down, moving and re-erecting three 130 ft. steel spans, furnishing and erecting two 130 ft. steel spans, and building 1,000 lin.ft. pile jetties; Hs-3, Federal Aid Project 80, 272 ft. rein.-con. bridge over Big Horn River at Thermopolis, Hot Springs Co.

Missouri—See Streets and Roads."

Tex., Cleburne—See "Streets and Roads."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Maine—Dept. Pub. Wks., Quebec, Que., Canada, received bids Aug. 18, building substructure of Edmundson N. B.-Madawaska, Me. International Bridge, over St. John River, from D. C. Burpee & Son, South Devon, N. B., Canada, $122,204, Rendle-Stoddard Co., Chelsea, Mass., $126,416, J. Gosselein, 85 Dalhousie St., Quebec, Que., Canada, $166,712; superstructure, from Dominion Bridge Co., Montreal, Que., Canada, $147,820, Canadian Bridge Co., New Birks Bldg., Montreal, Que., Canada, $154,280, United Constr. Co., 24 James St., Albany, N. Y., $239,590. Noted Aug. 5.

★**N. H., Bedford**—Boston & Maine R.R., North Sta., Boston, let contract rebuilding 5 timber bridges to W. W. Pike & Sons., 264 Essex St., Lawrence. About $30,000.

★**Conn., Norwich**—City let contract building rein.-con. bridge over Yantic River on West Main St., to C. A. Sibley, 902 Chapel St., New Haven. About $25,000. Noted June 24.

N. Y., New York—Dept. Plants & Structures, Municipal Bldg., received only bid building Eastchester Bridge over Eastchester Creek, from Lupfer & Remick, Ellicott Sq., Buffalo, $479,000.

N. Y., Rochester—E. S. Walsh, supt. bd. pub. wks., Capitol, Albany, received lowest 3 bids Aug. 17 completing approach on Court St. at barge canal terminal here, Contr. 71, from I. M. Ludington Sons Co., Inc., 124 Powers Bldg., $308,650; Brown & Lowe & Law Bros., Foster Ave., Schenectady, $338,763; Grant Smith & Co., Utica, $339,709. Noted July 22.

Md., Baltimore—Bd. Awards, c/o City Register, received low bid building 180 ft. bridge over Gwynns Falls, on Windsor Mill Rd., from Consolidated Eng. Co., Calvert Bldg., $105,280. Noted Aug. 12.

★**Ia., New Hampton**—Chickasha Co. let contract building 2 bridges, to A. Olson Constr. Co., 410 Black Hawk Natl. Bank Bldg., Waterloo. About $27,660.

Minn., Cambridge—Isanti Co. received bids building State Bridge 332, to have three 18 x 75 ft. truss spans on rein.-con. abutments and gravity piers, from W. O'Shea & Son, 526 Ridgewood Ave., $29,372; M. A. Adams & Co., 928 Andrus Bldg., $29,874; Independent Bridge Co., 1101 Metropolitan Life Bldg., Minneapolis, $31,250. Noted July 29.

★**Tex., Groesbeck**—Limestone Co. let contract building several rein.-con. and steel bridges and culverts, on Highway 14, to Tibbets Constr. Co., Mineral Wells, $115,965; including 10% for engineering and contingencies. Noted Aug. 19.

Streets and Roads

PROPOSED WORK

Maine—State Highway Comn., Augusta, plans to build highway from Skowhegan to Fairfield, macadam. About $226,000. P. D. Sargent, comr.

Mass., Boston—City receives bids about Sept. 15, improving Stark St. from Cambridge to Roland Sts., Charlestown; Thorndike St. from Commonwealth Ave. to Boundary line between here and Brookline, Brighton; Brenton St. from Glenway to Greenwood Sts., Dorchester; Melton Rd. from Wallingford to Colonial and Nottingham Rds., Brighton; Arbutus St. from Blue Hill Ave. to Irma St., Dorchester; Oriole St. from Bellevue St. to Emmons Rd., West Roxbury; Allenwood St. from Anawan Ave. to Pelton St., West Roxbury; widening Province St. on southeasterly and northeasterly side from Prom Province Court and discontinuance of part of northeasterly side of Province Court at southeasterly end; Washington St. on southeasterly side between Nonautum and Tremont Sts., Brighton; widening and building 4 corners at intersection of Canterbury and Walk Hill Sts., West Roxbury. Cost to exceed $25,000.

N. Y., New York—H. H. Curran, pres. Manhattan Boro., rejected bids Aug. 13, repaving with asphalt block 179th and 182nd Sts. Work will be re-advertised. Noted Aug. 5.

W. Va., Madison—Boone Co. voted $67,000 bonds to grade Charleston-Logan Turnpike. J. P. Blundon, co. engr.

N. C., Nashville—Bd. Aldermen plans to pave 1¼ mi. various streets. Mees & Mees, 310 Trust Bldg., Charlotte, consult. engrs.

S. C., Anderson—Comrs. Anderson Co. plan to build 20 mi. Anderson-Abbeville Rd., also 25 mi. Anderson-Greenville Rd. C. H. Morefield, Columbia, engr.

S. C., Camden—Comrs. Kershaw Co. plan to build 30 mi. Camden-Ridgeway Rd. C. H. Moorefield, Columbia, engr.

S. C., Spartanburg—Comrs. Spartanburg Co. plan to build 18 mi. road from here to North Carolina line. C. H. Moorefield, Columbia, engr.

S. C., York—Comrs. York Co. plan to build 15 mi. road from here to Cherokee line. C. H. Moorefield, Columbia, engr.

Fla., Haines City—City voted $60,000 bonds improve streets.

Ohio—State Highway Comn., Columbus, canceled bids received Aug. 20, building roads in following counties:

Hardin Co., Sect. "E" Findlay-Kenton Rd., 2.08 mi., grading, constructing bridges and culverts and paving with either bituminous concrete or Kentucky rock asphalt.

Ashtabula Co., Sect. "E" Jefferson-Andover Rd., 2.22 mi., resurfacing old surface with brick and granulated slag cushion. Noted July 29.

Ohio—State Highway Comn., Columbus, received no bids Aug. 20, building roads in following counties:

Richland Co., Sect. "M" Mansfield-Galion Rd., 0.682 mi., grading and paving with brick.

Guernsey Co., Sect. "M" National Rd., 1.28 mi., grading, constructing bridges and culverts and paving with brick.

Clermont Co., Sect. "K" Cincinnati-West Union Rd., 5.489 mi., grading, constructing bridges and culverts and paving with waterbound macadam.

Sect. "A" Milford-Vera Cruz Rd., 2.433 mi., grading, constructing bridges and culverts and paving with waterbound macadam. Noted July 29.

Mich., Hamtramck (Detroit P. O.)—Village rejected bids furnishing labor and material paving Jos. Campau Ave. from Caniff to Carpenter Aves., Dequindre St. from Caniff to Carpenter Aves., Caniff Ave. from Jos Campau to Conant Aves., involving 20,000 sq.yd. concrete, brick, asphaltic concrete or creosoted wood block. About $120,000. Work will be readvertised. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Minn., St. Paul—City receives bids paving 16 blocks of Arcade St. between Maryland St. and north city limits, asphaltic concrete, from Fielding & Shepley, 216 University Ave., $70,500; White Constr. Co., St. Paul, $71,549. Noted Aug. 12.

Missouri—State Highway Dept., Hermitage, received no bids July 31, building 4.49 mi. Preston-Collins Rd. (Preston Special Rd. Dist.), 24 ft. wide, Federal Aid Project 46, cost $26,094, and 7.4 mi. Springfield-Sedalia Rd. (Preston Special Rd. Dist.), 24 ft. wide, Federal Aid Project 45, both Hickory Co., $42,010. Noted July 22.

Mo., Oregon—Holt Co. having plans prepared paving 66½ mi. Mound City-Oregon Rd., 18 ft. wide, concrete. Leslie-Barnes Eng. Co., Amer. Natl. Bank Bldg., St. Joseph, engrs.

Mo., St. Joseph—Bd. Pub. Wks. passed ordinance to pave Marion St. from Circle Drive to Goff St., Goff Ave. from Marion St. to Circle Drive, 15th St. from Hickory to Atchison Sts. W. K. Seitz, St. Joseph, engr.

Mo., Savannah—Andrew Co. having plans prepared grading and building bridges on 26 mi. North and South Rd., 18 ft. wide. Leslie-Barnes Eng. Co., Amer. Natl. Bank Bldg., St. Joseph, engrs.

Streets and Roads (Continued)

Tex., Clarksville—Red River Co. having plans prepared grading, surfacing and draining 10,341 mi. Highway 5B from Bowie Co. line to English, 16 ft. wide, involving 13.46 acres clearing and grubbing, 52,840 cu.yd. borrow, 6,263 cu.yd. earth xcav., 260.3 cu.yd. Class "A" concrete, 16,467 cu.yd. gravel surfacing, 17,609 lb. reinforcing and 21,568 lb. structural steel. About $129,500, plus 10% for engineering and contingencies. P. Y. Creager, Clarksville, co. engr.

Tex., Dallas—Dallas Co. soon receives bids building 12 in. gutters and 8 ft. sidewalks on 1 mi. Harwood St. from Ross to Cedar Springs Sts. About $50,000. Rescinded former contract let to Klein Bros., Junios and Walton Sts. G. Fairtrace, Dallas, engr.

Tex., Ft. Worth—City had plans prepared paving about 1 mi. Commerce St., 30 and 40 ft. wide, involving 18 car loads vitr. brick (same being purchased by City). About $250,000. Work will probably be done by day labor.

Okla., Chandler—City having plans prepared repaving various streets in business district. About $150,000. D. D. Landsaw, clk. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma, engrs.

Ont., Ottawa—Bd. Control soon receives bids paving Somerset St. from Bank to Bay Sts., wood block, and Welling St. from Pooleys Bridge to west limit of Government property, asphalt. About $67,900. A. F. Macallum, city engr.

Ont., Ottawa—Dominion Government has approved plans for expenditure of $22,200,000 for Ontario highways and $17,390,000 for Quebec highways.

BIDS DESIRED

N. Y., Brooklyn—Until Sept. 1, by E. Riegelmann, boro. pres., regulating and repaving with permanent Grade 1 granite on 6 in. concrete foundation, roadway of Columbia St. from Hamilton Ave. to Sigourney St., Kingsland Ave. from point 268 ft. north of Calyer St. to point 453 ft. south, with permanent asphalt on 6 in. concrete foundation, strip 24 ft. wide in centre of 7th Ave. from 64th to 65th Sts., 57th St. from 2nd to 3rd Aves., with 3 in. asphalt block, 57th St. from 2nd to 3rd Aves., resurfacing with asphalt by heater method, Atlantic Ave. from Pennsylvania to Miller Aves., Autumn Ave. from Glen St. to Liberty Ave., De Koven Court from East 17th St. to Brighton Beach R.R., Euclid Ave. from Jamaica to Atlantic Aves., Irvington Pl. from East 17th St. to Brighton Beach R.R., Lorraine St. from Columbia to Smith Sts., Prospect Park, southwest from Prospect Park, west to Park Circle, St. Edwards St. from Park to Myrtle Ave., 16th St. from Prospect Park west to Prospect Park southwest, restoring and repaving asphalt pavements in roadways of various streets, when and where directed.

N. Y., Long Island City—Until Sept. 3, by M. S. Connolly, pres. Queens Boro., partially regulating and grading for sodding or seeding side slope adjacent to park, laying gutters, and building retaining wall for width of 60 ft. centrally located from Myrtle Ave. to point about 155 ft. north of Chestnut St., and for width of 70 ft. adjoining southeasterly and easterly side of Park Lane from point about 220 ft. southwest from point of curve at southwest corner Park Lane near 115th St. to Union Turnpike; regulating and grading sidewalk space for width of 10 ft. and gutter space and for laying sidewalks on easterly side of 42d St. from Jackson to Hayes Aves., regulating, grading, curbing and laying sidewalks and paving with permanent sheet asphalt on concrete foundation, 94th St. from Jamaica to 89th Aves., regulating and grading Harper Ave. from Jackson Ave. north for distance of 450 ft.; for partially filling vacant lot on southwest side of Tompkins Pl. from Myrtle to Cooper Aves.

N. Y., New York—Until Aug. 31, by H. H. Curran, pres. Manhattan Boro., regulating and repaving with granite and wood block on concrete foundation, areas included between parkways on Delancey St. at intersections of Norfolk and Suffolk Sts.

N. Y. S. I., St. George—Until Aug. 30, by C. D. Van Name, pres. Richmond Boro., repairing and building sidewalks on north side of Heusden St from Simonson to Van Pelt Aves., on both sides of Richmond Terrace from Harbor Rd. to Granite Ave. and on south side of Richmond Terrace from Morningstar Rd. to Granite Ave.

N. Y., S. I., St. George—Until Aug. 31, by C. D. Van Name, pres. Richmond Boro., repaving roadway of Arthur Kill Rd. from Kentley St. to Sharrots Rd., concrete.

New Jersey—Until Sept. 10, by State Highway Comn., Broad St. Bank Bldg., Trenton, repairing State Highway Route 1, from Highland Park to Hotel Pine, involving 8,000 sq.yd. 2 in. grade "W" bituminous concrete surface. A. L. Grover, ch. clk; advertised in this issue.

N. J., Jersey City—Until Sept. 9, by Bd. Freeholders Hudson Co., improving 2.22 mi. Schuyler Ave. in towns of Harrison and Kearny, involving 26,246 sq.yd. bituminous surface pavement and 5,250 cu.yd. foundation. About $126,000. Noted June 17.

N. J., North Arlington (Arlington P. O.)—Until Sept. 8, by Mayor and Boro. Council, grading Front St. from Kearny Ave. to Lorrigan Pl., involving 1,695 cu.yd. earth excav. and 1,140 cu.yd. earth fill; building concrete walks on Kearny Ave. from Astor Pl. to Chauncey Ave., 2,117 cu.yd. earth fill, 311 cu.yd. earth excav. and 20,700 sq.ft. concrete sidewalk. J. H. Shields, clk.

N. J., Red Bank—Until Sept. 7, by Boro. Council, paving 920 ft. Bridge Ave. from Front St. to Prospect St. A. A. Patterson, mayor. G. K. Allen, 60 Broad St., engr.; advertised in this issue.

Maryland—Until Aug. 31, by State Rds. Comn., 601 Garrett Bldg., Baltimore, building 1.4 mi. Legislative Rd. between Morantown and Allegany, (Contr. A-18); 2.14 mi. Mountain Rd. from end of concrete section to Jacobsville, (Contr. AA-19); 2.04 mi. Hereford Rd., (Contr. B-38). J. N. Mackall, chn.; advertised in this issue.

Alabama—Until Aug. 31, by State Highway Comn., Montgomery, building 3.2 mi. road from Browns Sta., Dallas Co., to Perry Co. line, involving 5 acres clearing and grubbing, 12,672 cu.yd. common excav., 192.5 lin.ft. 18-24 in. culvert pipe, 41.56 cu.yd. Class "B" concrete in headwalls, 97.82 cu.yd. Class "A" concrete in culverts, 7,480 lb. reinforcing steel, 7,400 cu.yd. gravel, etc. W. S. Keller, state highway engr.

La., New Orleans—Until Sept. 30, by W. B. Davey, city engr., paving 9.5 mi. residential streets, bitulithic, bituminous concrete, refined Trinidad Lake asphalt, sheet asphalt or creosoted wood block; 1.7 mi. in business section, granite blocks, vitr. brick or block, or creosoted wood block; 10.8 mi. various streets, chert or concreting clay gravel.

La., Rayville—Until Aug. 30, by State Highway Dept., New Orleans, building 10.75 mi. Sect. T. and 13.26 mi. Sect. C, Richland Co., involving drainage structures, 3,767.8 cu.yd. concrete in bridges and 270.63 cu.yd. concrete in culverts. D. Buie, state highway engr.

Ohio—Until Sept. 3, by State Highway Comn., Columbus, building roads in following counties:

Ashtabula Co., Sects. "C" and "D," Cleveland-Meadville Rd., 6.7 mi., resurfacing old road with macadam, cost $167,000.

Belmont Co., Sect. "M," Bellaire-Barnesville Rd., 2.999 mi., grading and draining, $52,499.

Sect. "H-1," Barnesville-Woodsfield Rd., 1.778 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $68,836.

Sect. "I," Barnesville-Woodsfield Rd., 2.061 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $74,065.

Crawford Co., Sect. "A," Shelby-Galion Rd., 2.434 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $90,600.

Clermont Co., Sect. "N-2," Milford-Hillsboro Rd., 3.548 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $100,197.

Geauga Co., Sect. "G," Cleveland-Meadville Rd., constructing bridge, $8,000.

Jackson Co., Sect. "F," Chillicothe-Jackson Rd., 1.85 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $62,305.

Sect. "K," Chillicothe-Jackson Rd., 2.332 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $109,275.

Mahoning Co., Sect. "N-2," North Lima-East Palestine Rd., .65 mi., grading, constructing bridges and culverts and paving with brick, $28,292.

Paulding Co., Sect. "G," Paulding-Woodburn Rd., 2.025 mi. grading, constructing bridges and culverts and paving with concrete, bituminous macadam or Kentucky rock, $79,671.

Sect. "A-2," Payne-Hicksville Rd., 2.00 mi., grading, constructing bridges and culverts and paving with concrete, bituminous macadam or Kentucky rock, $78,841.

Scioto Co., Sect. "R-1," Ohio River Rd., grading, constructing bridges and culverts and paving with brick, $204,086.

Sect. "B," Portsmouth-Oak Hill Rd., 1.95 mi., grading, constructing bridges and culverts and paving with brick, $91,850.

Van Wert Co., Sect. "A," Van Wert-Fort Wayne Rd., 5.826 mi., grading, constructing bridges and culverts and paving with reinforced concrete, bituminous concret, bituminous macadam or Kentucky rock, $295,429.

Ashtabula Co., Sect. "E," Jefferson-Andover Rd., 1.22 mi., resurfacing old macadam road with No. 3 brick, $35,054.

Cuyahoga Co., Sects. "C-1" and "C-2," Cleveland-Elyria Rd., 8.021 mi., widening pavement, waterbound macadam, $63,000.

Lorain Co., Sect. "T," Oberlin-Elyria Rd., 1.69 mi., grading, constructing bridges and culverts and paving with brick, $50,337.

Indiana—By Bd. Co. Comrs. building roads in following counties:

Sept. 6, Warren Co., Williamsport, 12,008 ft. H. Brutus et al. Rd., Warren Twp., gravel; 3,166 ft. C. L. Messner et al. Rd., Washington Twp., concrete; 10,586 ft. J. A. Borders et al. Rd., Prairie Twp., gravel; also 10,711 ft. O. B. Johnson et al. Rd., gravel; 13,332 ft. J. M. Salts Rd., Steuben Twp., gravel; 11,424 ft. A. R. Jones et al. Rd., Mound-Kent Twp. line, gravel; 11,930 ft. J. C. Haslet et al. Rd., Pine Twp., gravel; 15,152 ft. R. Silvia et al. Rd., Kent Twp., gravel. W. H. Stephens, aud.

Sept. 7, Pulaski Co., Winamac, 15,045 ft. A. D. Paine Rd., Rich Grove Twp., gravel. J. C. Howe, aud.

Montgomery Co., Crawfordsville, 15,840 ft. W. C. Lydick et al. Rd., Brown Twp., gravel. W. McClelland, aud.

Michigan—Until Sept. 1, by State Highway Dept., Lansing, grading, surfacing and draining Assessment Dist. Rd. 205, 16 ft. wide, St. Clair and Macomb Counties, involving 33,138 cu.yd. earth excav., 75,320 sq.yd. gravel, 438 cu.yd. concrete in culverts, etc. Former bids rejected. Noted July 15.

Mich., Atlanta—Until Sept. 7, by Comrs. Montmorency Co., grading, draining and gravel surfacing 3.277 mi. State Trunk Line Rd. 32-4, Sect. B, involving 30,760 sq.yd. gravel surface, 39,923 cu.yd. excav., etc. State Highway Dept., Lansing, engrs.

Mich., Grosse Pointe Park (Detroit P. O.)—Until Sept. 3, by C. H. Marden, engr., 502 Whitney Bldg., Detroit, grading, shaping and paving 2,400 ft. Beaconsfield Ave. from Kercheval to Mack Aves., 26 ft. wide, involving 65,000 sq.yd. concrete. Noted July 15.

Mich., Hillsdale—Until Sept. 3, by Comrs. Hillsdale Co., grading and gravel surfacing 6.032 mi. State Trunk Line Rd. 23-3, Sect. C, involving 8,882 cu.yd. gravel surface and 318.5 fine grading. State Highway Dept., Lansing, engrs.

Mich., Ionia—Until Aug. 31, by Comrs. Ionia Co. draining, grading and gravel surfacing 7.329 mi. Assessment Dist. Rd. 137, Ionia and Kent Counties, involving 6,325 sq.yd. excav., 22,392 sq.yd. gravel surface base course, 47,113 sq.yd. gravel surface top course. State Highway Dept., Lansing, engrs.

Mich., Muskegon—Until Sept. 2, by Comrs. Muskegon Co., draining, grading and surfacing 1.993 mi. State Trunk Line Rd. 24-12, involving 4,550 cu.yd. excav., 18,710 gravel, stone-gravel or waterbound macadam surfacing, etc. State Highway Dept., Lansing, engrs.

Ia., Cherokee—Until Aug. 31 by Comrs. Cherokee Co., building 14.03 mi. roads, involving 90,384 cu.yd. excav., 3,245 lin.ft. 6 and 8 in. tile and 2 tile intakes. H. R. Bates, Cherokee, engr.

Ia., Newton—Until Aug. 30, by city, paving various streets, involving 30,600 lin.ft. curb or curb and gutter and 36,000 sq.yd. concrete, brick or asphalt pavement; advertised in this issue.

Minn., Carlton—Until Sept. 7, by Carlton Co., graveling 2¾ mi. State Rd. 7 and improving 2¾ mi. Federal Aid Project 122, State Rd. 1, including excav., clearing, grubbing, graveling two 26 ft. clear span bridges, etc. About $30,000. P. D. Mohl, Carlton, engr.

Minn., Crookston—Until Sept. 4, by Polk Co., graveling 13.5 mi. Federal Aid Project 155, Co. Job 2001, involving 35,093 cu.yd.

Streets and Roads (Continued)

gravel and 71,259 lin.ft. shaping and compacting, also 1.1 mi. Federal Aid Project 94, Co. Job. 1910, involving 43,323 cu.yd. gravel and 52,300 lin.ft. shaping and compacting. About $52,000 and $40,000 respectively. E. H. Harding, Crookston, engr.

Minn., Minneapolis — Until Sept. 13, by Hennepin Co., grading 3.85 mi. State Rd. 45 and portion of State Rd. 6. About $25,000. A. P. Erickson, aud.

Kan., Ft. Scott—Until Aug. 30, by Comrs. Bourbon Co., completing 9,113 ft. Garland Branch Rd., Federal Aid Project 7, 16 ft. wide. B. Boyle, Ft. Scott, co. engr. Noted July 1.

Kan., Girard—Until Sept. 16, by Comrs. Crawford Co., grading and building culverts on 9.085 mi. Federal Aid Project 40, Sects. A, B, C, D, E and F, 18 ft. wide, cost $150,000; 5.033 mi. Ringo-Edson Rd., Federal Aid Project 39, 18 ft. wide, $75,000. W. J. Arnold, Girard, engr.

Kan., Iola—Until Sept. 15, by Comrs. Allen Co., building concrete road, grading and constructing culverts on 2 mi. Ft. Scott-Wichita Highway, Federal Aid Project 65, 18 ft. wide. About $100,000. A. Stroup, Iola, engr.

Missouri—State Highway Dept., Jefferson City, receiving bids building 26 mi. Jefferson Highway from Buchanan Co. line to Parkville Rd. Dist., 18 ft. wide, Platte Co. Leslie-Barnes Eng. Co., Amer. Natl. Bank Bldg., St. Joseph, engrs.

Missouri—Until Sept. 1, by State Highway Dept., Harrisonville, building 19 mi. Harrisonville-Belton Rd., 24 ft. wide, Federal Aid Project 20, Cass Co., involving 66,464 cu.yd. earth and 8,127 cu.yd. rock excav., 1,880 cu.yd. borrow, 2,500 cu.yd. per 100 ft. overhaul, 539.6 cu.yd. Class "B" and 27.5 cu.yd. Class "C" concrete masonry, 41,487 lb. reinforcement for concrete masonry, 225 lin.ft. 14-18 in. vitr. clay pipe, etc., cost $93,144; Frahm Bridge, rein.-con. spandrel filled arch, 13.9 cu.yd. Class "A," 421.2 cu.yd. Class "B," concrete, 42,420 lb. reinforcing steel, $19,533; Brown Bridge, rein.-con. skew deck girder to have 2 rein.-con. abutments and 1 concrete pier, 5.5 cu.yd. Class "A," 190.9 cu.yd. Class "B" and 58.3 cu.yd. Class "C" concrete, 21,520 lb. reinforcing steel, $10,107; Longshore Bridge, rein.-con. deck girder with 2 rein.-con. abutments, 2.6 cu. yd. Class "A" and 116.1 cu.yd. Class "B" concrete, 10,400 lb. reinforcing steel, $5,195, all bridges on Harrisonville-Belton Rd.

Mo., Bethany—Until Sept. 6, by city, paving 4 blocks 17th St. between Main and Miller Sts., involving 3,300 sq.yd. concrete. About $50,000. O. Stratton, city engr.

Tex., Cleburn—Until Aug. 31, by Comrs. Johnson Co., Precinct 1, improving 16 mi. Rio Vista and Lone Willow Rds., also building steel bridge on concrete pier and abutments, across Nolan River. Work involves 151,000 cu.yd. gravel surfacing, 1,500 cu. yd. concrete, 79,000 lb. structural steel, 8,500 cu.yd. loose rock excav., etc. C. White, co. aud.

Tex., Hillsboro—Until Sept. 4, by R. F. Burns, judge Hill Co., grading, gravel surfacing and building rein.-con. bridges and culverts on 14.9 mi. Highway 31 through Hill Co., 15 ft. wide, involving 114,077 cu.yd. borrow and 28,970 cu.yd. earth excav., 27,375 cu.yd. gravel, 105,200 lb. reinforcing steel, 1,020 cu.yd. Class "A" and 330 cu.yd. Class "B" concrete. About $224,000. Bryant & Huffman, Littlefield Bldg., Austin, engrs.

Tex., Jasper—Until Sept. 13, by C. C. Brown, judge Jasper Co., grading and building rein.-con. bridges and culverts on 12.48 mi. Highway 8 from Buna southeast to Newton Co., 24 ft. wide, involving 71,765 cu.yd. earth excav., 42,860 lb. steel bars, 506.9 cu.yd. Class "A" and 57.9 cu.yd. Class "B" concrete. About $47,000. C. P. Hunter, Jasper, co. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Vermont**—State Highway Dept., Montpelier, let contract building .73 mi. waterbound macadam highway in Barnet Twp., to Arboris Co., Hartford, Conn. $28,497.

Vermont—State Highway Comn., Montpelier, received bids building (a) .71 mi. State Highway, Project 5, St. Albans, involving 1,175 cu.yd. earth excav., 878 cu.yd. stone, 1,388 cu.yd. waterbound macadam, 1,250 lin.ft. standard underdrain, etc., (b) .73 mi. Project 3, Barnet, 3,236 cu.yd. earth and 387 cu.yd. rock excav., 2,286 cu. yd., stone, 1,200 ft. 6 in. drain, etc.; (c) 4.07 mi. Project 13, New Haven and Waltham, 8,324 cu.yd. earth excav., 2,000 cu. yd. stone, 9,078 cu.yd. waterbound macadam, 623 lb. reinforcing and 1,995 lb. structural steel, etc.; (d) 6.81 mi. Project 12, Sect. A, Mt. Tabor, Dorset and Danby, 26,879 cu.yd. earth excav., 16,154 cu.yd. gravel, 691 cu.yd. concrete, 1,914 cu.yd. stone, 3,898 cu.yd. borrow, 614 ft. 12-18 in. corrugated pipe culverts, etc.; (e) 6.76 mi. Sect. B, 20,675 cu.yd. earth excav., 16,687 cu.yd. graveling, 616 ft. 12-18 in. corrugated culvert piping, etc. J. H. Button, St. Albans, (a) $23,538; Arboric Co., 80 Park St., New Haven, (b) $28,497; Perine & Sons, Inc., Ashland, Mass., (b) $32,661; W. F. Loud & Sons Co., 94 Hall Pl., Quincy, (c) $108,110; G. L. Gregoire & Co., Barre, (d) $132,717; P. C. Risci, Rutland, (e) $123,829; W. E. Dix, Corp., Springfield, (d) $142,398, (e) $120,242; Alco Contr. Co., Boston, (d) $154,666, (e) $143,998.

Massachusetts — State Highway Dept., Boston, received bids Aug. 17 building 4,200 ft. cement concrete and bituminous macadam highway, Palmer, from C. Bianchi & Co., Framingham, $44,820; Adams & Ruxtan Constr. Co., 33 Lyman St., Springfield, $44,841.

Mass., Boston—City received bids Aug. 18 paving Centre and South Sts., West Roxbury, (a) sheet asphalt, (b) Topeka, from Bermudex Co., 246 1st St., Cambridge, (a) $75,877; Rowe Constr. Co., 45 Milk St., (b) $76,562; Central Constr. Co., 228 Southampton St., Roxbury, (b) $80,252.

Mass., Boston — City received bids Aug. 10 paving Cushman Rd., Easton St., Glenville Ave., etc., from J. J. Lane (sheet asphalt) $62,072, (Topeka) $62,257, (bituminous) $62,812; Warren Bros. Co., 142 Berkeley St., (bituminous) $65,970.

★**Mass., Palmer**—Bd. Comrs. let contract paving 4,200 ft. North Main St., cement concrete, to C. Bianchi & Co., Framingham, $44,820. Noted Aug. 19.

Conn., New Haven — City received bids paving (1) Norton St., (2) Rose St., (3) New Hall St., (4) Highland St., (5) Cedar St., (a) National, (b) sheet asphalt, (c) Topeka, (d) concrete, (e) bituminous macadam, from C. W. Blakeslee & Sons, 58 Waverly St., (1e) $9,677, (2b) $4,388, (2c) $3,751, (3b) $10,683, (3c) $9,418, (4b) $8,968, (4d) $11,688, (5b) $2,013, (5c) $1,715; R. D. Daley & Co., 6 Church St., (1e) $7,825, (4b) $8,735, (4d) $9,130; Connecticut Natl. Pavements, Inc., 185 Church St., (1e) $8,131, (2a) $4,702, (2b) $4,207, (2c) $3,927, (3a) $11,516, (3b) $10,256, (3c) $9,290, (4a) $7,988, (b) $7,148, (4c) $6,545, (4d) $11,377, (5b) $1,917, (5c) $1,809, (5e) $2,154.

★**New York**—State Highway Comr., Capitol, Albany, let contract repairing Rd. 432, Dutchess Co., to Kennedy Constr. Co., Albany, $83,935; Rd. 5534-A, Schuyler and Yates Cos., to W. Hazard, Ithaca, $8,293. Noted Aug. 19.

★**N. Y., Brooklyn**—E. Riegelman, boro. pres., let contract regulating and grading, (a) East 7th St. from Ave. T to Ave U, (b) East 19th St., (c) East 45th St., (d) 52nd St., (e) 82nd St., (f) Bath Aves., (g) Hegeman Ave., (h) regulating, grading and laying sidewalks on Hegeman Ave., (i) regulating, grading and laying curbs on Neptune Ave., (j) regulating and paving East 47th St., (k) 51st St., (l) 52nd St., (m) 81st St., (n) 82nd St., (o) regulating and paving with asphalt East 7th St. from Ave. T to Ave. U, (p) furnishing and delivering 2,500 bbl. portland cement, to J. Pallidino, (a) $4,912, (b) $4,049, (d) $6,473, (e) $7,116; Uvalde Asphalt Paving Co., 1 Bway., New York City, (c) $42,118, (m) $13,981, (n) $10,090; Brooklyn Alcatraz Co., 407 Hamburg Ave., (j) $22,403, (k) $11,394, (l) $14,461, (o) $14,155; B. Turacama, 8706 Bay 12th St., (f) $12,174; Cassel Bros., (g) $1,300; C. A. Myers, (h) $2,245; Wolfman & Greenbaum, (i) $7,533; Burroughs Bldg. Material Co., Johnson Ave., (p) $12,000. Noted Aug. 5.

★**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro., let contracts regulating, grading, curbing and laying sidewalks on 16th Ave. from Grand to Vandeventer Ave., to N. Lascalso, $3,850; North Jane St. from Vernon Ave. to terminus 368.55 ft. west, to Spalone Contg. Co., $50,876; regulating and repaving with asphaltic concrete on macadam foundation, Laurel Hill Blvd., Rockaway Blvd. from Cronins Crossing to Park Ave., Atlantic Ave. from Nortons Creek to Long Island R.R.; on concrete foundation Corona Ave. from Louona to Colonial Aves., also with sheet asphalt on concrete foundation Jamaica Ave. from Van Wyck Ave., Grand St., to Uvalde Asphalt Paving Co., $49,848, $64,250, $17,450, $39,333 and $181,792 respectively; regulating roadway for 30 ft. width and laying for 18 ft. width both centrally located, a preliminary pavement of bituminous macadam on 104th St. from Farmers Blvd. to Hollis Ave., to Kennedy & Smith, $6,490; Myrtle Ave., to C. Kurth, $6,849. Noted July 22.

N. Y., New York — H. Bruckner, pres. Bronx Boro., received bids repaving with sheet asphalt in railroad area, where directed, from Union Paving Co., Bway. and 112th St., $25,120; Asphalt Constr. Co., 2197 Madison Ave., $25,690; J. L. Brusstar, Harlem River and 150th St., $25,910; Uvalde Asphalt Paving Co., 1 Bway., $26,950.

★**N. Y., New York**—H. H. Curran, pres. Manhattan Boro., let contract repaving Madison Ave., sheet asphalt, to Cleveland Trinidad Paving Co., Flushing, $31,172. Noted Aug. 12.

N. Y., New York—H. H. Curran, pres. Manhattan Boro., received bids Aug. 19 regulating and repaving with sheet asphalt (a) West 54th St., (b) West End Ave. from 69th to 72d Sts., (c) West End Ave. from 76th to 91st Sts., (d) with asphalt block West End Ave. from 69th to 72d Sts., (e) with wood block West 54th St., (f) with granite block, Hudson St., from W. J. Fitzgerald, 547 West 45th St., (a) $42,758, (b) $29,644, (c) $162,881, (e) $62,156, (f) $109,131; J. L. Brusstar, Harlem River and 150th St., (a) $44,794; Davney Asphalt Co., 177th St. and Westchester Creek, (a) $46,042; Uvalde Asphalt Paving Co., 1 Bway., (a) $46,477, (b) $30,975, (c) $163,785; Cleveland Trinidad Paving Co., Flushing, (a) $46,874, (b) $30,241, (c) $163,241; Hastings Paving Co., 25 Broad St., (d) $34,930; P. J. Kearns, 2306 Creston Ave., (f) $122,760. Noted Aug. 12.

N. Y., New York—H. H. Curran, pres. Manhattan Boro., received bids Aug. 16 regulating and repaving with sheet asphalt, (a) Madison Ave. from 91st to 94th Sts., (b) with granite block, Delancey St. between parkways, (c) Lexington Ave. from 125th to 130th Sts., (d) 125th St. from 1st to 3d Aves., (e) with wood block, Delancey St. between parkways, (f) Lexington Ave. from 125th to 130th Sts., (g) 125th St. from 1st to 3d Aves., (h) regulating, grading and flagging Hillside Ave., etc., from Cleveland Trinidad Paving Co., Flushing, (a) $32,933; J. L. Brusstar, Harlem River and 150th St., (a) $33,801; Uvalde Asphalt Paving Co., 1 Bway., (a) $34,621; Asphalt Constr. Co., 2197 Madison Ave., (a) $35,042, (c) $55,514, (d) $69,142; D. J. McCarthy, (b) $2,965, (e) $2,894, (h) $984; W. J. Fitzgerald, 547 West 45th St., (b) $3,425, (c) $57,146, (e) $3,351, (f) $58,534, (g) $85,884; Burnside Constr. Co., 270 Burnside Ave., (c) $56,063, (d) $70,082, (h) $1,348; P. J. Kearns, 2306 Creston Ave., (c) $56,942, (d) $69,462; C. Helbock, 633 Wales Ave., (d) $69,843; L. DiMenna, (h) $1,336.

★**N. Y., New York**—H. H. Curran, pres. Manhattan Boro., let contract regulating and repaving State and East 39th Sts. to C. Helbock, 633 Wales Ave., $19,075 and $46,101 respectively; Prince St., to W. J. Fitzgerald, 547 West 45th St., $15,308; 122d St., to Burnside Contg. Co., 270 Burnside Ave., $61,294; 182d St. from Wadsworth Ave. to Bway., to Hastings Paving Co., 25 Broad St., $6,615; 179th St. and 182d St. from Amsterdam to Wadsworth Aves., to Davney Asphalt Co., 177th St. and Westchester Creek, $35,309 and $28,531 respectively; building sewers in 122d St. at foot of Harlem River, to P. F. Reilly, $7,302. Noted Aug. 19.

★**New Jersey** — State Highway Comn., Broad St. Bank Bldg., Trenton, let contract paving .9 mi. highway at Rahway, Union Co., to Weldon Constr. Co., Westfield, $115,850.

★**N. J. Belvidere**—Bd. Freeholders Warren Co. let contract building 7,718 sq.yd. rein.-con. road on South Main St., to Korp & Korp, Phillipsburg, $33,947.

★**N. J., Flemington**—Hunterdon Co. let contract building .6 mi. concrete road near Flemington Jct., 20 ft. wide, to Smith Bros. & Co., Hackettstown, $29,651. Noted Aug. 12.

★**N. J., Newark**—City let contract paving with concrete, Hansbury Ave. from Elizabeth to Bergen St. and Goldsmith St. from Clinton to Bergen Sts., to J. B. Gilligan, 919 Broad St., $73,256. Noted May 27.

Streets and Roads (Continued)

★**N. J., Newark**—Essex Co. let contract paving 4,000 ft. Sanford St., from Central Ave., East Orange, to Newark city line, 20 ft. wide, to Standard Bitulithic Co., 50 Church St., New York City, $54,904.

N. J., North Bergen (Weehawken P. O.)—Town let contract improving South St. to W. Baker Contg. Co., South St., Jersey City. About $55,000. Noted July 29.

★**N. J., West Orange**—Essex Co. (Newark) let contract improving Mt. Pleasant Ave., here, to Franklin Constr. Co., 52 Vanderbilt Ave., New York City, $116,700. Noted Aug. 5.

★**N. J., Woodbury**—Gloucester Co. let contract paving 4 mi. Westville and Crown Point Rds., concrete, to E. R. Mixner, Goshen, N. Y. About $154,000.

★**Pa., Dormont**—City let contract grading, paving, curbing, etc., Mississippi Ave. to Pittsburgh Paving Co., Bakewell Bldg., $8,500; Connecticut and Wisconsin Aves. to P. A. Binintind & Bros., 310 Dawn Ave., $10,000 and $8,000 respectively; building sewers in various streets, to M. Ott Co., 416 Warington Ave., $12,000; all contractors of Pittsburgh.

★**Pa., Phila.**—City let contract grading Sedgwick, Sherman, Mt. Airy Ave. and Wayne Sta., to F. Mark Constr. Co., 2820 North 21st St., $36,806, paving with asphalt, Torresdale Ave. from Kingston to Franklin, to Eastern Paving Co., Colonial Trust Bldg., $28,969.

★**Pa., Pittsburgh**—City let contract grading, paving and curbing Woodville Ave. from Independence St. to Bankville Ave., to T. Cronin Co., 18th and Fox Sts., $58,739. Noted Aug. 5.

★**Tennessee**—State Highway Dept., Nashville, let contract building 16.304 mi. state highway, from Davidson Co. line to Murfreesboro, Rutherford Co., Project 47, bituminous macadam penetration, using oil asphalt, to B. Williams, Lawrenceburg, $424,121; grading and draining 14.544 mi. highway, Carroll and Weakley Counties, Project 22, to W. S. Knight & Co., Horn Lake Rd., Memphis, $117,902; 9.94 mi. highway between Cheatham Co. line and Burns, Dickson Co., Project 46, to F. H. Crow & Co., Dickson, $56,480.

Ohio—State Highway Comn., Columbus, received bids Aug. 20, building roads in following counties:

Ashland Co., Sect. "Haysville" Mansfield-Wooster Rd., 0.624 mi., grading, constructing bridges and culverts and paving with monolithic brick, from D. A. Philips & Son, Ashland, $33,125.

Sect. "D" Mansfield-Wooster Rd., 3.509 mi., grading, constructing bridges and culverts and paving with monolithic brick, D. A. Philips & Son, Ashland, $152,221.

Section "Jeromeville" Mansfield-Wooster Rd., 0.039 mi., grading, construction bridges and culverts and paving with monolithic brick, D. A. Philips & Son, Ashland, $7,942.

Crawford Co., Sect. "H" Bucyrus-Sandusky Rd., 4.087 mi., grading, constructing bridges and culverts and paving with bituminous concrete, cement base, Disher Bros., Upper Sandusky, $222,966; same paving with bituminous macadam, waterbound macadam base, W. F. Drake, Upper Sandusky, $202,745.

Lucas Co., Sect "H-2" Toledo-Wauseon Rd., 1.105 mi., grading, constructing bridges and culverts and widening present macadam and surface treatment, C. M. Gray, Waterville, $12,971; Jos. H. Doran, Toledo, $13,153.

Sandusky Co., Sect. "U" Sandusky-Clyde Rd., 0.995 mi., grading, constructing bridges and culverts and paving with rein.-con., Lee Bros. & Petticord, Clyde, $41,625.

Sect. "C-1" and "C-2" Fremont-Bowling Green Rd., 2.222 mi., grading, constructing bridges and culverts and paving with brick on concrete base, Modern Constr. Co., Fremont, $84,928.

Vinton Co., Sect. "Hamden" McArthur-Jackson Rd., 0.96 mi., grading, constructing bridges and culverts and paving with brick on rolled surface, King & Sharp, McArthur, $31,948; Winchell & McDaniels, Columbus, $32,359.

Crawford Co., Sect. "A" Galion-Bucyrus Rd., 1.13 mi., widening and resurfacing with bituminous concrete, J. W. Carey, Ada, $32,104.

Huron Co., Sect. "C" Monroeville-Chicago Junction Rd., 1.78 mi., grading, widening, repairing foundation and resurfacing with waterbound macadam, Barnes & Tabbert, Rocky Ridge, O., $23,779.

Lorain Co., Sect. "M" Oberlin-Elyria Rd., 1.72 mi., resurfacing with 2-inch bituminous concrete on top with penetration macadam curb and widening base, Highway Constr. Co., Elyria, $42,914; Ohio Eng. Co., Lorain, $44,074.

Richland Co., Sect. "H" Mansfield-Mt. Gilead Rd., 4.36 mi., widening and resurfacing with bituminous macadam, Trumbull Constr. Co., Warren, $92,637.

Warren Co., Sect. "D" Cincinnati-Chillicothe Rd., 2.99 mi., resurfacing with waterbound macadam, S. B. Craig, Blanchester, $49,456; T. D. Van Camp, Cincinnati, $50,643; Curry & Hayes, Eaton, O., $51,335. Noted July 29.

★**O., Cleveland Heights** (Warrensville P. O.)—Village let contract grading, draining, curbing and paving Caledonia Ave. from Taylor Rd. to village limits, involving 7,900 sq.yd. asphalt, 71,000 sq.ft. 6 in. concrete base, 4,800 lin.ft. each stone curb and tile gutter and 6,300 cu.yd. earth excav., to Lake Erie Paving Co., 915 Society for Savings Bldg., Cleveland, $49,266.

★**O., Cleveland Heights** (Warrensville, P. O.)—Village let contract grading, draining, curbing and paving with asphalt, Wood Rd. from Crest Rd. to Crest Drive, Maple Rd. from Mayfield to Wood Rds., Glenwood Ave. from Cleveland Heights Blvd. to Noble Rd., to Spence Bros., Woodhill Rd., Cleveland, $45,862, $62,086 and $28,910 respectively.

★**O., Dayton**—Montgomery Co. let contract paving 1.6 mi. Bessie Little Rd. from Dayton Corp. line to Troy Pike, 20 ft. wide, Kentucky rock asphalt, to Bigler Bros., Middletown, $57,869. Noted Aug. 12.

★**O., Reynoldsburg**—Franklin Co. let contract grading and paving 3,122 ft. Natl. Rd., 32 ft. wide, tarvia macadam, to Baker Constr. Co., 547 School St., Columbus, $24,035.

★**Michigan**—State Highway Dept., Lansing, let contract grading, draining and surfacing .809 mi. State Trunk Line Rd. 15-6, 20 ft. wide, to Houghton Co. Rd. Comrs., Houghton, $25,220; 4.039 mi. State Trunk Line Rd. 28-6, Sect. A, 16 ft. wide, Gogebic Co., involving 15,770 cu.yd. earth excav., 37,911 sq.yd. gravel surface, 2,136 lin.ft. guard rail, etc., to Oxnam & Brown, Ironwood, $70,239; 1.23 mi. State Trunk Line 11-11, 20 ft. wide, St. Joseph Co., 4,106 cu.yd. earth excav., 13,900 sq.yd. bituminous macadam, 541.9 cu.yd. concrete base, 709.8 cu.yd. waterbound macadam, base, etc., to Howard & D. Vander Veen, 320 Briarwood Ave., Grand Rapids, $42,616. Noted April 29.

Mich., Detroit—City received bids furnishing labor and material for grading and paving with sheet asphalt on 8 in. concrete foundation, (1) Ashland Ave. from Jefferson Ave. to Lots 270 and 299, (2) Chalmers Ave. from Charlevoix to Mack Aves., (3) Green Ave. from Cahalan to Ferndale Sts., (4) Marlborough Ave. from Waterloo to Charlevoix Aves., (5) Philip Ave. from Kercheval to Mack Aves., all 26 ft. wide, paving with 1 course concrete, (6) alley 1193 between 10th, 12th, La Brosse and Baker Sts., 15 and 20 ft. wide, from Detroit Asphalt Paving Co., 20 McGraw Bldg., (1) $9,669, (2) $30,866, (3) $28,194, (4) $21,164, (5) $64,749; Cleveland Trinidad Paving Co., 402 Hammond Bldg., (1) $10,628, (2) $33,720, (3) $30,985, (4) $23,102, (5) $70,710; R. Porath, 1131 McKinley Ave., (6) $10,089; R. A. Mercier, 746 Hudson Ave., (6) $10,670; Otis Cement Constr. Co., 806 Hammond Bldg., (6) $9,872; R. J. Powelson & Co., 1577 Iroquois St., (6) $10,305. Noted July 22.

Wisconsin—State Highway Dept., at div. office 6, 213 South Barstow St., Eau Claire, received bid grading and paving 7.6 mi. Ellsworth-River Falls Rd., Federal Aid Project 122, Pierce Co., from Isaacson Bros. & Mulheron, Spring Valley, work involves 36,427 cu.yd. earth excav., at $0.60 per cu.yd., 580 cu.yd. changes in creek channel, $0.65, 417 cuyd. Class "A" concrete in culverts, $28, 66,791 sq.yd. 15 ft. macadam surfacing, $0.43, 1,200 sq.yd. 18 ft. concrete surfacing, $3, etc., total cost, $69,673; 4.5 mi. Medford-Cornell Rd., Federal Aid Project 125, Taylor Co., from Universal Eng. Co., Eau Claire, work involves 18,263 cu.yd. earth excav., $1.17, 696 cu.yd. ditching, $1.17, 170 cu.yd. Class "A" concrete in culverts, $38, 147 cu.yd. excav., (Morrow Bridge), $0.40, 87,125 lb. structural steel, $0.12, 1,714 cu.yd. borrow excav., $1.17, 18.3 cu.yd. Class "A" concrete, $40, 121.5 cu.yd. Class "B" concrete, $40, 53.9 cu.yd. Class "E" concrete, $41, etc., total cost, $50,506. Noted Aug. 12.

★**Wis., Elkhorn**—City let contract grading, surfacing and building culverts in Martin and Grace Sts., to T. H. Gharity & Sons, Beloit, $29,758.

★**Minn., Hastings**—Dakota Co. let contract improving Federal Aid Project 197 (extension of Federal Aid Project 23), involving 48,000 ft. grading and 10,650 sq.yd. paving, etc., to Warren Bros., 323 Plymouth Bldg., Minneapolis, $56,447. Noted July 2

★**Minn., Red Lake Falls**—Red Lake Co. let contract grading and graveling 8 mi. Federal Aid Project 144 to A. F. Turner, Grand Forks, N. D., $30,541. Noted July 2

★**Minn., Walker**—Cass Co. let contract grading 12.66 mi. Job 2004, involving 124,858 cu.yd. excav. and 14,820 cu.yd. overhaul, also 12.6 mi. Federal Aid Project 14 State Rd. 11, involving 69,279 cu.yd. excav and 31,962 cu.yd overhaul, to P. W. Roark Thief River Falls, $93,787 and $43,700 respectively; 7.59 mi. Federal Aid Project 142, State Rd. 6, involving 10 acres clearing and grubbing, 77,067 cu.yd. excav., 99,18 cu.yd. overhaul, and 5,098 cu.yd. gravel to L. and L. Constr. Co., Walker, $57,089 grading and graveling 7.5 mi. Job 2001, involving 30 acres clearing and grubbing 55,831 cu.yd. excav., 29,394 cu.yd. overhaul and 7,000 cu.yd. clay surfacing, to Wilkinson & Pettijohn, Walker, $44,558.

Kan., Leavenworth—Comrs. Leavenworth Co. and Wyandotte Co. (Kansas City), received bids Aug. 17, improving 7.968 mi. Fort to Fort to Highway, Federal Aid Project 52, 18 ft. wide, (1) Sect. A, (2) Sect. B, (a) grading, (b) building culverts, from Davidson Constr. Co., Kansas City, (1a) $48,567, (2b) $15,673; Cook & O'Brien Kansas City, (1b) $15,676; Blue Valley Constr. Co., Manhattan, (2a) $29,037; building bridge on Sect. D, from F. M. Clark, $6,729. Noted Aug. 5.

★**Kan., Leavenworth**—Leavenworth Co. let contracts grading 4.416 mi. Fort to Fort Highway, Federal Aid Project 13 C, 18 ft. wide, to Davidson Constr. Co., Kansas City, Mo., $23,387; culverts, to A. A. Diekman, Tonganoxie, $15,874. Noted July 22.

★**Mo., Mound City**—City let contract paving 4 blocks Nebraska St., concrete, to Reinert Bros., 1208 North 5th St. About $82,000.

★**Mo., New Madrid**—New Madrid Co. let contract improving 19.3 mi. Sect. A State Rd., Project S 18.93, 24 ft. wide, to E. Prendergast, St. Louis, $57,186. Noted Aug. 5.

★**Tex., Angleton**—Brazoria Co. let contract grading, surfacing and building timber pile trestles on 5.73 mi. Highway 36, through Rd. Dist. 24, 16 ft. wide, to S. I. Stratton and M. Palmer, Freeport, representing Com. Rd. Dist. 24, $45,052; including 10% for engineering and contingencies. Noted Aug. 19.

★**Tex., Coleman**—Coleman Co. let contract building 42.17 mi. crushed rock or gravel road in Precinct 2, to A. Smith, Santa Anna. About $140,000. Noted April 8.

★**Tex., Dallas**—City let contract building 2 in. bitulithic topping on concrete base, on Park Row, Ruskin and Newton Sts., to Texas Bitulithic Co., 1101-6 Praetorian Bldg., $59,472.

★**Tex., Dallas**—Dallas Co. let contracts paving with 2 in. bitulithic topping on 6 in. concrete base, Gilbert St. from Throckmorton to Herschel Sts., 30 ft. wide, involving 15,000 sq.yd. bituminous macadam and 15,000 sq.yd. concrete base, also 1,800 ft. Irving St. from Oak Lawn to Throckmorton Sts., 30 ft. wide, 6,000 sq.yd. bituminous macadam and concrete base, to Texas Bitulithic Co., Praetorian Bldg., $44,038 and $12,852 respectively.

Tex., Ft. Worth—Tarrant Co. received bids Aug. 14, grading and building concrete culverts on 5.8 mi. Dallas-Ft. Worth Pike (Bankhead Highway), Federal Aid Project 1, 20 ft. wide, from Womack Constr. Co., Ft. Worth, $68,698; Echols Bros., 1010½ Main St., $75,528; Healy Constr. Co., Burk Burnett St., $80,067. Noted July 8.

★**Tex., Ft. Worth**—Tarrant Co. let contract grading and building concrete drainage structures on 5.8 mi. Bankhead Highway, Project 1, 20 ft. wide, to Womack Constr. Co., Ft. Worth, $68,698.

★**Tex., Groesbeck**—Limestone Co. let contract grading and gravel surfacing 23.37 mi. Highway 14 from Falls Co. north, 15 ft. wide, to Tibbetts Constr. Co., Mineral Wells, $219,023; including 10% for engineering, contingencies and material furnished by county. Noted Aug. 19.

★**Tex., San Angelo**—Tom Green Co. let contract surfacing 5 mi. State Highway 4, 16 ft. wide, to J. E. Ward, 520 East 13th St., Dallas. About $330,000.

Streets and Roads (Continued)

★**Tex., San Antonio**—City let contract paving 21 streets, to Southwestern Bituthic Co., Gunter Bldg., $280,000, and Uvalde Rock Asphalt Co., Milam St., $280,000.

Tex., Spur—Dickens Co. received bids improving 7.5 mi. Highway 37 from here to Crosbyton, 16 ft. wide, (a) scarifying and reshaping roadway, grading and surfacing roadway, (b) building concrete drainage structures, from C. L. Douglas, Spur, (a) $19,745; Lea Constr. Co., Lovington, N. M., (a and b) $44,742; C. Whitner, Spur, (b) $14,644. Work involves 15,104 cu.yd. borrow, 1,364 cu.yd. earth excav., 10,124 cu.yd. gravel, 284.1 cu.yd. Class "A," 37.5 cu.yd. Class "B" concrete and 55.3 cu.yd. concrete pavement.

★**Wash., Everett**—City let contract laying concrete sidewalks and roadway on Summitt Ave. et al, to J. W. Hoover & Co., 1607 Hoyt St. About $47,200. Noted Aug. 5.

★**Wash., Seattle**—City let contract improving 40th Ave., N., et al., to Olympic Constr. Co., Green Bldg., $63,756. Work involves 6,945 lin.ft. Type "A" armored concrete curbing and 10,900 sq.yd. 7 in. concrete paving.

★**Wash., Tacoma**—Pierce Co. let contract clearing and grading 2.2 mi. Bond Rd. 12, involving 10 acres clearing and grubbing, 33,387 cu.yd. earth excav. and 4,504 cu.yd. overhaul, to Maxham & Morgan, Buckley, $30,058; grading, draining and paving 1.831 mi. Bond Rd. 11, 18,987 lin.ft. concrete curbing, 2,312 cu.yd. earth excav., 17,516 sq.yd. 1 course concrete and 17,518 sq.yd. subgrade, to S. A. Moceri, Seattle, $50,860.

Ore., Portland—City received bids Aug. 11, improving Portland Blvd. from Interstate to Union Aves., from Cochran Bros., 415 South Syracuse St., concrete No. 3 in roadway, $2.50 per sq.yd., total $80,830; United Contg. Co., Northwest Bank Bldg., asphaltic concrete No. 2, 2 in. top on crushed rock base in roadway, $2.52 per sq.yd., $85,150.

Railways

PROPOSED WORK

Minnesota—Chicago & Northwestern R.R., 226 West Jackson Blvd., Chicago, plans to improve road and lay 26 mi. of 80 lb. steel rails in Sanborn and Cobden and from Sleepy Eye to Milford Siding. L. J. Putnam, Chicago, ch. engr.

BIDS DESIRED

Nova Scotia—Until Sept. 3, by Dept. Pub. Wks., Western Blk., Ottawa, extending railway spur at Barrington Passage, involving 9 blocks cribwork, stone filled, each 12 ft. long by 20 ft. wide. About $30,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Michigan**—Detroit United Ry., Interurban Bldg., Detroit, will build 10½ mi. street railway track (part, standard construction, part on unpaved streets) on 3rd Ave. from North Saginaw to Wilcox Sts., Stewart St. from North Saginaw St. to Industrial Ave., Detroit St. from Dayton to Bray Sts., Bray St. from North Saginaw to Detroit Sts., Lewis St. from Bway. to Fairview St. and Fairview to Delaware Sts., Delaware St. from Lewis St. to Western Rd., Western Rd. from Delaware St. to Davison Rd. and West Court from Vosburg St. to Grand Trunk Ry. About $750,000. Work will be done by day labor. U. S. Rodgers, genl. traffic mgr.

★**Texas**—Ringland, Eastland & Gulf Ry., Eastland, let contract extending line 3 mi. from Wayland to connection with Wichita Falls, Ranger & Gulf Ry. near Necessity, to Mayne Bros., Oklahoma. About $200,000; cost plus percentage basis.

★**Oregon**—Willamina & Grande Ronde Ry., Willamina, let contract building 10 mi. standard main line railroad, ballasted, fences, depot, etc., from Willamina to Grand Ronde, to Bates & Rogers Constr. Co., Old Colony Bldg., Chicago.

Excavation and Dredging

PROPOSED WORK

N. J., Jersey City—Excavation—City Comn. plans to excavate, widen and refill Hackensack River front from Bayonne boundary line to West Newark Ave. About $650,000.

Miss., Greenwood—Abiaca Creek D.D., Le Floro, Holmes and Carroll Counties, plan to build open ditch system to reclaim 11,000 acres overflowed land near here, also control hill stream. About $175,000. Engineer not selected. J. I. Lundy, Sidon, chn.

BARGE CANAL WORK NEW YORK

Bids were received by E. S. Walsh, supt. Pub. Wks., Capitol, Albany, Aug. 17, for completing Court St. approach to Rochester Terminal, Contr. No. 71, from (A) I. M. Ludington & Sons, Inc., 124 Powers Bldg., Rochester; (B) Brown & Lowe & Law Bros., Foster Ave., Schenectady; (C) Grant, Smith & Co., 918 Downer Ave., Utica; (D) Lupfer & Remick, Ellicott Sq., Buffalo, $356,836. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
100 lin.ft. drilling holes in existing masonry	$2.25	$2.25	$2.25
100 lin.ft. painting old masonry	.50	.50	.50
Removing stone-filled cribs and fenders (lump sum)	200.00	200.00	200.00
Cofferdams, pumping, bailing and draining (lump sum)	9,000.00	3,000.00	5,000.00
19,800 cu.yd. excavation	2.00	1.82	2.30
12,200 cu.yd. compacting backfill	.25	.20	.25
20 M.f.b.m. sheeting and bracing	100.00	100.00	120.00
7,900 cu.yd. second-class concrete	17.00	18.10	19.00
2,000 cu.yd. first-class reinforced concrete	26.25	36.00	31.00
1,100 lin.ft. concrete balustrade	6.50	8.00	7.50
125 cu.ft. cutting old masonry	3.00	3.00	3.00
9 cast iron drains and outlet pipes	80.00	80.00	80.00
2 cast iron lamp poles	50.00	50.00	50.00
3 setting lamp poles	25.00	25.00	25.00
175 lin.ft. 6-in. vitrified pipe and specials	.60	.60	.60
1,500 lin.ft. 10-in. vitrified pipe and specials	1.10	1.00	1.10
170 lin.ft. 12-in. vitrified pipe and specials	1.50	1.50	1.50
170 lin.ft. 15-in. vitrified pipe and specials	1.70	1.70	1.70
345,000 lb. metal reinforcement	.08	.09	.09
49,000 lb. structural steel	.20	.17	.18
1,050 lin.ft. metal curb bar	.60	.35	.70
770 lin.ft. wrought iron pipe railing	2.70	2.25	3.00
640 sq.yd. brick pavement	4.00	5.00	4.00
4 manholes	142.75	142.75	150.00
6 gutter basins	85.00	85.00	85.00
12,100 lb. metal duct	.20	.20	.24
930 lin.ft. duct	.20	.40	.20
40,000 sq.ft. waterproofing concrete	.05	.06	.05
9,000 sq.ft. waterproof membrane	.75	1.85	.85
Extended totals	$306,750	$338,763	$339,709

Minn., Waseca—Waseca Co. received no bids Aug. 10, building Co. Ditch 16. About $50,000. Work may be re-advertised. J. W. Hruska, Waseca, engr. Noted July 29.

Ark., Little Rock—Ditch—Roland D.D., Pulaski Co., plans to build open ditch system to drain 3,500 acres near here. O. G. Baxter, Moore & Turner Bldg., engrs.

BIDS DESIRED

N. J., Jersey City—Dredging—Until Aug. 31, by Bd. City Comrs., dredging and deepening Hudson River adjacent to Morgan St. Pier, here. F. A. Dolan, clk.

Miss., Belzoni—Levee—Until Sept. 1, by Comrs. Belzoni D.D., building Levee 2 (Belzoni-South), 13,200 ft. long, 2 ft. high, involving 8,160 cu.yd. excav., Levee 3 (Belgrade), 9,500 ft. long, 2.1 ft. high, 7,656 cu.yd. excav., Levee 4 (Wasp Lake), 5,000 ft. long, 1.3 ft high, 1,224 cu.yd. excav., also enlarging Levee 1 (Belzoni-North), 11,200 ft. long, height to be increased 2 ft., 13,000 cu.yd. excav. S. Castleman, Belzoni, pres.

Tenn., Covington—Drainage—Until Sept. 2, by Bd. Dir. Town Creek D.D. 1, Tipton Co., clearing and cleaning 73 acres right-of-way for main canal, from Sta. 0 to Sta. 116, 50 ft. wide, from Sta. 116 to 375, 100 ft. wide, involving 97,175 cu.yd. excav. W. H. Green, Covington, engr.

Ia., Harlan—Drainage—Until Aug. 30, by Shelby Co., draining 22½ mi. Dist. 10, involving 1,460,000 cu.yd. excav. About $850,000. Mayne Eng. Co., 207 Pearl St., Council Bluffs, engrs.

Minn., Crookston—Ditches—Until Sept. 4, by H. J. Welte, aud. Polk Co., building Co. Ditch 33, involving 48,911 cu.yd. excav., 7.5 mi. grading, etc., cost $9,910; Co. Ditch 58, 15,102 cu.yd. excav., 2.25 mi. grading, 1 steel and concrete bridge, etc., $4,923; Co. Ditch 51, 33,531 cu.yd. excav., 3.84 mi. road building, culverts, $11,221.

Minn., Fairmont—Ditches—Until Aug. 31, by H. C. Nolte, aud. Martin Co., reconstructing Judicial Ditch 85, involving 89,290 ft. 6-30 in. tile, average depth 4-9 ft., 36,630 ft. open ditch, 163,506 cu.yd. excav., etc., cost $105,561; Ditch 88, 23,805 ft. 6-22 in. tile, 3-6 ft. deep, 1,492 cu.yd. open ditch excav. etc., $17,554; Ditch 89, 145,675 ft. 6-38 in. tile, 4-9 ft. deep, 129,309; Ditch 90, 18,250 ft. 6-22 in. tile, 4-8 ft. deep, $13,991; Ditch 91, 56,540 ft. 6-30 in. tile, 4-9 ft. deep, $54,934; Ditch 92, 17,200 ft. 6-18 in. tile, 4-7 ft. deep, $8,007; Ditch 95, 16,100 ft. 6-20 in. tile, 4-9 ft. deep $9,970.

Alta, Waterhen—Drainage—Until Sept. 27, by Dept. of Interior, Langevin Blk., Ottawa, Ont., constructing drains, Waterhen Recl. Project. About $75,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. C., Spindale—See "Waterworks."

★**Wis., Sheboygan**—Drain—Sheboygan Valley D.D., c/o J. Donohue, engr., North 8th St., let contract draining low lands in several villages, involving 6-12 in. tile, to J. Corbett, South Milwaukee. About $125,000.

★**Ia., Marengo**—Ditch—Iowa Co. let contract building North English River D. D. 9, involving 957,000 cu.yd. excav., to C. A. Walb, La Grange, Ind. Noted July 8.

Industrial Works

PROPOSED WORK

Mass., Fall River—Amer. Printing Co., Water St., soon lets contract building 100 x 119 ft., concrete, steel and brick factory, also 1 story, 44 x 133 ft. power plant and brick chimney. About $165,000. Private plans.

Mass., Pittsfield—General Electric Co. having plans prepared by M. M. Throne, engr., c/o owners, for 5 story, 70 x 400 ft., rein.-con. addition to factory.

Mass., Provincetown—Colonial Fisheries Co. plans to build fireproof warehouse. About $50,000. Private plans.

Mass., West Springfield (Springfield P. O.)—McClintock & Craig, engrs., 33 Lyman St., Springfield, soon receive bids building 2 story, concrete and steel plant, rein.-con. flooring, concrete foundation, for Springfield Automatic Screw Machine Corp., Springfield. About $200,000. Noted July 29.

Mass., Worcester—H. Glick, 36 Portland St., having plans prepared by E. T. Chapin, archt., 310 Main St., for 2 story, 60 x 135 ft., rein.-con., brick and steel addition to garage, rein.-con. flooring, concrete foundation, on Portland St. About $80,000.

R. I., Pawtucket—Hope Webbing Co., 1005 Main St., having plans prepared by Perry & Whipple, archts. and engrs., Rhode Island Hospital Trust Bldg., Providence, for large brick and steel addition to factory.

Conn., New Britain—G. A. Zunner, archt., 756 Main St., Hartford, soon lets contract building 2 story, 40 x 150 ft., brick and mill construction addition to factory, concrete foundation, on Cherry and Ellis Sts., for P. Jahn Mfg. Co., 6 Chestnut St. About $50,000. Noted June 3.

Conn., New Haven—Yale University having sketches prepared by Delano & Aldrich, archts. and engrs., 126 East 38th St., New York City, for 2 story, brick and stone chemical laboratory, rein.-con. flooring, brick foundation. About $250,000.

Conn., Waterbury—Lux Clock Mfg. Co., 105 Sperry St., plans to build 4 story, brick and mill construction addition to factory. Private plans.

N. Y., Brooklyn—J. Riley, c/o H. Holden, archt. and engr., 242 Franklin Ave., soon lets contract building 1 story, 100 x 250 ft., rein.-con., brick and steel foundry, rein.-con. flooring, concrete foundation on Columbia St. About $250,000.

Industrial Works (Continued)

N. Y., Jamaica—Scott & Williams, 366 Bway., New York City, had plans prepared by C. M. Hart, archt. and engr., 12 East 44th St., New York City, for 2 story, brick and concrete machine shop, rein.-con. flooring, concrete foundation, on Archer and Middletown Sts., here. About $50,000.

N. Y., Long Island City—J. Weldon having plans prepared by J. M. Baker, archt. and engr., 9 Jackson Ave., for 4 story, 90 x 100 ft., brick, rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on 1st Ave. near Freeman Ave. About $125,000.

N. Y., New York—M. Courland, archt. and engr., 47 West 34th St., preparing sketches for 4 story, brick and steel garage, rein.-con. flooring, concrete foundation, on 2nd Ave. About $75,000. Owner's name withheld.

N. Y., New York—C. E. Birge, archt. and engr., 29 West 34th St., soon lets contract building 3 story, 42 x 100 ft., brick, concrete and steel publishing plant, rein.-con. flooring, concrete foundation, at 337 West 58th St., for Veronica Realty Corp., c/o architect. About $100,000. Noted June 17.

Pa., New Castle—Lehigh Portland Cement Co., 718 Hamilton St., Allentown, had plans prepared for 3 story, 44 x 140 ft. power house, 2 story, 22 x 22 ft. clinker building, 2 story, 40 x 72 ft. storage, all brick, concrete and steel, also 225 ft. concrete trestle. About $200,000. Private plans.

Md., Baltimore—Amer. Can Co., 120 Bway., New York City, having plans prepared for rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation. About $500,000. Private plans.

Md., Curtis Bay (Baltimore P. O.)—Union Acid Wks. have acquired 250 x 520 ft. site on Aspen St. near Curtis Ave. and plans to extend plant.

N. C., China Grove—United Mills Co., Hickory, N. C., plans to build 1 story, 125 x 400 ft. cotton mill, brick and timber, along tracks of Southern R.R. here. About $50,000. R. C. Biberstein, 614 Elizabeth Ave., Charlotte, archt. and engr.

Fla., Tampa—Bd. Port Comrs. considering plans submitted by W. M. Black for terminal, to include 850 ft. slip, warehouses on both sides, phosphate elevator, naval stores, general terminal facilities, machinery, etc. About $1,500,000.

Fla., Tampa—O. Daniels, Estuary, plans to build 3 story, 100 x 105 ft. garage, on Franklin St.

O., Cincinnati — Rendigs, Panzer & Martin, archts., Palace Theatre Bldg., open bids about Sept. 15 building 1 story, brick and steel, pottery, with 45,000 sq.ft. floor space, on Lester Rd., for Wheatley Pottery Co., 2426 Reading Rd.

O., Cleveland—J. H. Rooke, 507 Williamson Bldg., had plans prepared by W. W. Hodges, archt. and engr., Lennox Bldg., for 4 story, 200 x 280 ft., rein.-con., brick and steel factory, rein.-con. flooring, brick foundation, on Ashland Rd. and Cedar Ave. About $250,000.

Ind., Bedford—Bedford Steel & Constr. Co., Engrs., Bedford, preparing plans for 1 story canning factory. Owner's name withheld.

Ind., Michigan City—Amer. Iron & Steel Corp. plans to build 1 story concrete, brick and steel plant, to have 250 tons daily capacity. First unit to include 6 open hearth furnaces, 12-mill sheet steel plant and other mills for manufacture of plates, rods, bars, slabs, rails, wire and other direct and by-products of industry. About $50,000,000. L. L. Slick of Slick-Knox Co., Pittsburgh, Pa., dir. Architect's name withheld.

Ind., Valparaiso—Pioneer Truck Co. plans to build 100 x 300 ft. plant. About $100,000. O. M. Freir, pres.

Mich., Detroit — Detroit Motor Bus Co., 1701 Dime Bank Bldg., plans to build 1 story, brick and steel garage and repair shop, rein.-con. flooring, concrete foundation, on Jefferson Ave. Architect not selected.

Mich., Detroit—Ft. Shelby Garage, c/o J. Gillespie, Ft. Shelby Hotel, plans to build 4 story, 130 x 150 ft., rein.-con., brick and steel garage, rein.-con. flooring, concrete foundation, on Howard and 1st Sts. A. Kahn, Marquette Bldg., archt.

Mich., Saginaw—See "Buildings."

Wis., Sheboygan—Sheboygan Parlor Furniture Co., South Water St., having preliminary plans prepared by Juul & Smith, archts., Imig Bldg., for 4 story, 60 x 174 ft., rein.-con., brick and steel factory, rein.-con. flooring. About $75,000.

Mont., Forsyth—Montana Sugar Co. having preliminary plans prepared by W. E. Farlow, archt., Forsyth, for sugar factory. About $1,500,000.

Mo., Aurora—Juvenile Shoe Co., Advertising Bldg., St. Louis, soon receives bids building brick factory here. About $60,000. T. P. Barnett Co., Arcade Bldg., St. Louis, archts. and engrs. Noted June 10.

Mo., Butler—City voted $65,000 bonds to build new electric power plant. J. F. Smith, clk. Engineer not selected.

Mo., St. Louis—Bowen Motor Ry., Title Guarantee Bldg., having plans prepared by O. J. Popp, archt., Odd Fellows' Bldg., for factory and power house on Maplewood St. About $385,000.

Okla., Henryetta—Cogswell Refining Co. having plans prepared by J. C. Bertsch, engr., Tulsa, for petroleum refinery of 2,000 bbl. capacity. About $250,000. J. F. Cogswell, pres.

Col., Denver—Federal Glass Co. c/o Sylvester & Co., 1st Natl. Bank Bldg., plans to build plant, to include office building, circular glass house, factory with 10,000 sq. ft. floor space, and gas plant. About $250,000.

Col., Denver — Mountain States Packing Co., Gas & Electric Bldg., plans to build packing plant, to include not less than 5 buildings, adjoining stock yards, in northeastern section of city. About $2,000,000. Architect's name withheld.

Col., Denver — Western Mfg. Co., Evans Blk., plans to build 1 story plant. About $250,000. Architect not selected.

Wash., Yakima—Puritan Rubber Co., 16-17 Wilson Bldg., plans to build 60 x 250 ft. factory. About $250,000. W. L. Lanning, Wilson Bldg., engr.

N. S., North Sydney—Farquohai & Son soon receives bids building 2 story, 50 x 100 ft. rein.-con. warehouse, office, etc. H. E. Gates, Halifax, archt.

Ont., Ford City—Fisher Body Co. of Canada having plans prepared by A. Kahn, archt., Walker Rd., Walkerville, for 4 story, 90 x 192 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation, also 12 x 92 ft. rein.-con. loading platform, on St. Lukes Rd.

Ont., Kingston — Thomas Watson Co., Woodstock, soon receives bids building factory here. About $100,000.

BIDS DESIRED

Mass., Wrentham — Until Aug. 31, by Kendall, Taylor & Co., archts. and engrs., 93 Federal St., Boston, constructing 1 story, 50 x 70 ft. cold storage plant and 1 story, 40 x 90 ft. industrial building, brick and steel, concrete flooring and foundations, at State School here for Commonwealth of Massachusetts. About $100,000. Noted April 22.

N. Y., Buffalo—Until Sept. 29, by State Hospital Comn., Capitol, Albany, building addition to central heating plant and coal and ash handling equipment at State Hospital here. L. F. Pilcher, state archt.

N. Y., Long Island City—Until Sept. 1, by J. M. Baker, archt. and engr., 9 Jackson Ave., building 1 story, 67 x 100 ft., rein.-con., brick and steel, addition to garage, rein.-con. flooring, concrete foundation, on 8th St., for J. P. Conato. About $50,000.

N. Y., New York—Until Sept. 7, by J. H. Delaney, comr. Transit Constr., 49 Lafayette St., building 2nd brick, concrete and steel addition to shops, on Lenox Ave. and 148th St.

La., New Orleans—Until Sept. 7, by Bd. Port Comrs., furnishing or furnishing and erecting all structural steel required for the Poydras St. freight shed and extension; advertised in this issue.

O., Hamilton — Herring - Hall — Marion Safe Co., receiving bids building 2 story, rein.-con. and brick factory, rein.-con. flooring, concrete foundation. About $75,000.

O., Norwood (Cincinnati P. O.) — Safe Cabinet Co. receiving bids building 1 story, 80 x 150 ft., brick and steel factory. B. L. Baldwin, 2d Natl. Bank, archt. and engr.

Ind., Indianapolis—Westinghouse Lamp Co., Watsessing Ave., Bloomfield, N. J., receiving bids building 4 story, 100 x 200 ft., rein.-con., brick and steel factory, rein.-con. flooring, on La Salle Ave., here. Cost including equipment $2,000,000. Private plans.

Wis., Sheboygan—Phoenix Chair South 12th and Virginia Sts., and Juul & Smith, archts., Imig Bldg., receiving bids building 4 story, 200 x 400 ft., brick, rein.-con. and steel factory, rein.-con. floors, brick foundation. About $200,000. Juul, 805 North 8th St., engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Cambridge**—C. A. Briggs Co., 120 Main St., let contract building 5 story, 60 x 180 ft., rein.-con. factory, rein.-con. flooring, concrete foundation, on Ames St., to W. M. Bailey Co., 88 Broad St., Boston. About $200,000.

★**Mass., Everett** (Boston P. O.)—Boston Varnish Co., 2d St., let contract building 3 story, 60 x 100 ft. addition to paint and varnish factory, brick and steel, concrete foundation, on East Sumner St., to J. P. Locatelli & Co., Inc., 46 Cornhill St., Boston. About $75,000.

★**Mass., Framingham**—Record Realty Co. let contract building 1 and 2 story, 80 x 175 ft. concrete, brick and steel factory, rein.-con. flooring, concrete foundation, on Union Ave., to E. A. Abbott Co., 3 Park St., Boston. About $100,000.

★**Mass., Lynn**—Hilliard & Merrill, Inc., 206 Broad St., let contract building 7 story, 130 x 480 ft., rein.-con., steel and brick factory and warehouse, rein.-con. flooring, concrete foundation, on Eatern Ave., to W. M. Bailey Co., 88 Broad St., Boston. About $1,000,000.

★**Mass., New Bedford**—Nashawena Mills Co., Bellevue Ave., let contract building 2 story, 70 x 150 ft., concrete, brick and steel addition to mill, rein.-con. flooring, concrete foundation, to J. W. Bishop Co., 411 Times Bldg. About $100,000.

★**Mass., Peabody**—A. C. Lawrence Leather Co., 161 South St., Boston, let contract building 1 story, 70 x 70 ft., concrete, steel and brick garage, rein.-con. flooring, concrete foundation, to E. H. Porter Co., 13 Wallis St., here. About $50,000.

★**Mass., South Hanover**—R. C. Waterman Co. c/o J. M. Hall, 101 Milk St., Boston, let contract building 1 story, brick, concrete and steel factory, rein.-con. flooring, concrete foundation, here, to E. Curtiss, Scituate. About $70,000.

★**Mass., Springfield**—Armory Sq. Realty Trust, 274 Main St., will alter present building and construct 1 story, 80 x 125 ft. brick, concrete and steel garage, concrete flooring and foundation, on North Main St. About $75,000. Work will be done by day labor.

★**R. I., Auburn** (Providence P. O.)—Universal Winding Co. let contract building 3 story, concrete, brick and steel addition to plant, concrete foundation, to C. I. Bigney Constr. Co., 357 Westminster St., Providence. About $175,000.

★**R. I., Pawtucket**—B. McCaughey & Co., Slater Trust Bldg., let contract building 3 story, 65 x 90 ft., brick, concrete and steel warehouse, concrete foundation, on East Ave. and Timothy St. About $80,000. Private plans.

★**R. I., Pawtucket**—What Cheer Chemical Co., Grotto Ave., let contract building 3 story, 40 x 62 ft., brick and concrete addition to boiler house, rein.-con. flooring, concrete foundation, to J. F. Cole, 81 Niagara St., Providence. About $50,000.

★**Mass., Taunton** — Municipal Lighting Comn. let contract improving and building addition to plant on West Water St. to Westinghouse Electric Co., 6905 Tusquehoma St., Pittsburgh, Pa. About $400,000. Noted July 22.

★**Conn., Bridgeport** — United Illuminating Co., 84 Temple St., New Haven, let contract building superstructure of 1 story, 140 x 150 ft., brick, rein.-con. and steel power plant, rein.-con. flooring, on East Main St., to Casey & Hurley, 120 Pequonnock St. About $1,500,000.

★**Conn., Hartford**—S. K. F. Ball Bearing Co., 330 New Park Ave., let contract building 1 story, 77 x 200 ft., brick and steel factory, rein.-con. flooring, concrete foundation, to J. H. Grozier Co., 721 Main St. About $75,000.

★**Conn., New Haven** — New York, New Haven & Hartford R.R., Meadow St., let contract remodeling machine shop, locker buildings and storehouse, also constructing 1 story, 100 x 120 ft. brick and steel addition to freight yard, rein.-con. flooring, concrete foundation, to C. W. Murdock, Inc., 185 Church St. About $150,000.

dustrial Works (Continued)

★**Conn., Plantsville** — Atwater Mfg. Co. ently let contract building machine shop stroyed by fire, 2 story, 62 x 80 ft., brick nd steel, concrete foundation, to H. Wales nes Co., 134 State St., Meriden. About 50,000. Noted July 15.

★**Conn., Portland** — Portland Fdry. Co., reestone St., let contract building 2 story, x 50 ft., brick, concrete and steel addition foundry, rein.-con. flooring, concrete foundation, to T. Sellew, Portland. About 50,000.

★**Conn., Waterbury**—M. J. Daly & Sons Co., 543 Bank St., let contract building 1 story, 100 x 175 ft., brick and concrete warehouse, rein.-con. flooring, concrete foundation, to G. S. Chatfield Co., 138 Division St. About $100,000.

★**Conn., Waterbury**—Malthy Garage, 33 Union St., let contract building 1 story, 65 x 200 ft., brick, concrete and steel garage, rein.-con. flooring, concrete foundation, on East Main St., to Tracy Bros. Co., 52 Benedict St. About $50,000.

★**N. Y., New York**—J. J. Buckley Syndicate, 233 Bway., let contract building 8 story, brick, rein.-con. and steel printing plant and office, rein.-con. flooring, concrete foundation, on 9th Ave. between 33rd and 34th Sts., to J. O. Devlin Constr. Co., 233 Bway. About $3,500,000.

★**N. Y., New York**—Castle Realty Co., c/o G. F. Pelham, archt. and engr., 200 West 72nd St., will build additional rein.-con. steel and brick story to factory, rein.-con. flooring, at 446 West 31st St. About $200,000. Work will be done by day labor.

★**N. Y., New York**—C. Schuckin, 1601 University Ave., will build 2 story, 100 x 100 ft., brick and steel garage, rein.-con. flooring, on 176th St. About $125,000. Work will be done by day labor.

★**N. J., Passaic**—Smith Tire Co. let contract building 60 x 200 ft. tire factory, rein.-con. and steel, to Egan & Montague, 1 Montgomery St., Jersey City. About $150,000.

★**Pa., Phila.**—Hellwig Silk Dyeing Co., 9th and Buttonwood Sts., let contract building 2 story, 95 x 235 ft., concrete and brick factory, on Holmstead and Milnor Sts., to F. W. Van Loon, Perry Bldg. About $90,000.

★**Md., Baltimore** — Coca-Cola Co., Pratt St. and Market Pl., let contract building 4 story, 196 x 534 ft. factory and cooperage plant, rein.-con., steel and brick, rein.-con. flooring, concrete foundation, on Fort Ave., to A. Tufts Co., c/o Raymond Co., 921 Munsey Bldg. About $1,000,000. Noted Aug. 5.

★**Md., Crisfield** — Potomac Poultry Food Co., 802 Keyser Bldg., let contract for concrete work on 1 story, 125 x 144 ft., rein.-con. and steel plant, to Spencer Constr. Co., 514 Garrett Bldg., Baltimore; sheet metal, to Valle & Young, Bush and Ridgely Sts., Baltimore; steel work, to Shoemaker & Satterthwait, Pottstown, Pa. Noted Aug. 12.

★**O., Bedford**—D. Round & Son Co. let contract building 1 story, 90 x 120 ft., brick and steel addition to foundry, brick foundation, at Stop 2, to Du Perow Constr. Co., Plymouth Bldg., Cleveland. About $50,000.

★**O., Cincinnati** — Nash Motor Car Co., Gilbert Ave., let contract building 3 story, 80 x 225 ft., concrete and steel garage, on Reading Rd. and Morgan St., to Fisher-Devore, Blymer Bldg. About $150,000. Noted July 29.

★**O., Cleveland**—Bd. Educ., East 6th St. and Rockwell Ave., let general contract building 1 story, 40 x 200 ft. machine shop addition to high school, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Bway. and Fullerton Ave., to A. A. Lane Constr. Co., 1836 Euclid Ave., $87,960.

O., Cleveland Heights (Warrensville P. O.)—Bd. Educ. received bids building 2 story, 50 x 67 ft., rein.-con., brick and steel power plant, rein.-con. flooring, concrete foundation, at Public School, on Lee Rd., from P. Kirschner, Hippodrome Bldg., $41,382; piping, Warden & Lees, 2450 Prospect Ave., $18,250; chimney, A. Custodis Chimney Co., 95 Nassau St., New York City, $12,150; ash pit, coal and ash handling machinery, Link Belt Co., Rockefeller Bldg., $18,430. Noted July 29.

★**O., Massillon**—Lucius Reinforced Tank Co. let contract building 1 story, 70 x 160 ft., rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation, to H. K. Ferguson Co., 6532 Euclid Ave., Cleveland. About $75,000.

★**O., Painesville**—Light Alloys Co. let contract building 1 story, 75 x 140 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to H. K. Ferguson Co., 6532 Euclid Ave., Cleveland. About $65,000.

★**Ill., Chicago**—United States Industrial Alcohol Co. Inc., 27 William St., New York City, let contract building rein.-con. and steel warehouse, rein.-con. flooring, concrete foundation, on 37th and Western Aves., here, to G. A. Fuller Co., 175 5th Ave., New York City. About $500,000.

★**Wis., Sheboygan**—Ebenreiter Lumber Co., 1215 Erie Ave., let contract building 2 story, 42 x 157 ft., brick, rein.-con. and steel garage, rein.-con. flooring, brick foundation, to Verhulst Bros., 1615 Erie Ave.

★**Wis., Sheboygan**—Jenkins Machine Co., 315 North 8th St., let general contract building 1 and 2 story, 150 x 200 ft., brick, rein.-con. and steel machine shop, rein.-con. flooring, brick foundation, on North 8th St., to Verhulst Bros., 1615 Erie Ave. About $75,000.

★**Minn., Minneapolis**—Russell Miller Milling Co., Security Bldg., let contract building 1 story, 50 x 140 ft., rein.-con. and brick addition to warehouse, to B. H. Stahr, 401 Metropolitan Bank Bldg. About $65,000. Noted July 15.

★**Cal., Pt. Loma**—See "Buildings."

★**Ont., Brantford**—Caxslutt Plow Co. let contract building 1 story, 70 x 200 ft. rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation, to H. K. Ferguson Co., 6532 Euclid Ave., Cleveland, O. About $75,000.

★**Sask., Saskatoon** — Canadian Natl. Ry., Ottawa, Ont., let contract building roundhouse to Shamon Bros., Saskatoon. About $125,000.

Buildings

PROPOSED WORK

Me., Brunswick — Church — C. R. Greco, archt., 8 Beacon St., Boston, soon lets contract building 1 story, 50 x 100 ft., brick and stone, for St. John the Baptist Society. About $100,000. T. Remy, pastor. Noted July 8.

Mass., Fall River—School—City having plans prepared by E. M Corbett, archt., 70 Bedford St., for 1 story, 140 x 200 ft., concrete, brick and steel, concete flooring and foundation, on Bowen St.

Mass., Fall River—Temple—Masonic Society having plans prepared by W. B. Robinson, archt., 57 North Main St., for 4 story, 72 x 140 ft., concrete and steel, on North Main and Elm Sts. About $150,000. D. T. Burdick, chn. Noted Aug. 5.

Mass., Gloucester—Hospital—Gloucester Hospital, Inc., having plans prepared by E. L. Phillips, archt., 191 Main St., for 2 story, brick, concrete and steel addition to Addison Gilbert Hospital.

Mass., Malden (Boston P. O.)—Business—F. H. Gowing, archt., 18 Tremont St., Boston, soon lets contract building 3 story, 72 x 105 ft., brick, concrete and steel, rein.-con. flooring, concrete foundation, on Common Sq., for Trafton Realty Co. Cost between $150,000 and $200,000. Noted July 22.

Mass., Malden (Boston P. O.)—Store and Office—F. H. Gowing, archt., 18 Tremont St., Boston, preparing plans for 3 story, 76 x 100 ft. brick and steel, on Main St. About $125,000. Owners name withheld.

Mass., Needham (Boston P. O.)—School—School Comn. having plans prepared by MacNaughton & Robinson, archts., 101 Tremont St., Boston, for 2 story, 44 x 160 ft. with 40 x 60 ft. wing, concrete, brick and steel, concrete foundation. About $125,000. Noted Aug. 5.

Mass., New Bedford—School—Bd. Educ. rejected bids July 29, and will have revised plans prepared by Smith & Howland, archts., Bartlett Bldg., for 3 story, 153 x 166 ft., concrete, brick and steel, rein.-con. flooring, concrete foundation, on Summer St. About $700,000. Work will be readvertised. Noted Aug. 12.

Mass., Roxbury (Boston P. O.)—School—Congregation Adath-Jeshuron, 397 Blue Hill Ave., plans to build 2 story, 70 x 120 ft., concrete, brick and steel, rein.-con. flooring, concrete foundation, on Howland St. About $160,000. Blackall, Clapp & Whittemore, 20 Beacon St., Boston, archts.

Mass., South Byfield—Dormitory, etc.—Dummer Academy plans to build brick and steel dormitory, gymnasium and central heating plant. About $250,000. Architect not selected.

Mass. Webster—Store, etc.—M. Holden, 51 Klebert Ave., plans to build 3 story, 100 x 120 ft., concrete, brick and steel store, auditorium, bowling alley, etc., rein.-con. flooring, concrete foundation, on Main St. About $100,000. Funk & Wilcox, 294 Washington St., Boston, archts.

Mass., Winchester—Memorial—City having plans prepared by R. S. Vinal, archt., 46 Cornhill St., Boston, for Memorial Community Building. About $100,000.

Mass., Worcester—Hotel—Bancroft Realty Co., Franklin St., plans to build rein.-con., brick and steel addition to Bancroft Hotel on Portland St. About $1,000,000. Eisenwein & Johnson, Buffalo, N. Y., archts.

R. I., Providence — Laboratory — Brown University, Prospect St., having plans prepared by Day & Klauder, archts. and engrs., 925 Chestnut St., Phila., for 3 story, 50 x 200 ft., brick.

Conn., Bridgeport — Church — St. Peter's Roman Catholic Society, 1562 Fairfield Ave., having plans prepared by O'Connell & Shaw, archts., 18 Boylston St., Boston, for 1 story, 70 x 150 ft., brick and steel. About $100,000. C. A. Leddy, pastor.

Conn., Bristol—High School—Bd. Educ. rejected bids Aug. 3, and will have revised plans prepared by W. Potter, archt., 22 East 17th St., New York City, for 4 story, 150 x 250 ft. brick, rein.-con. and steel, rein.-con. flooring, concrete foundation, at Dunbar Meadows. About $950,000. Work will be readvertised. Noted Aug. 12.

Conn., New Britain—School—Bd. Educ. soon lets contract building 3 story, 60 x 240 ft. ell, brick, rein.-con. and steel, rein.-con. flooring, concrete foundation, on Tremont St. About $35,000. D. K. Perry, 27 West Main St., archt. Noted April 29.

N. Y., New York—Office—Union Sulphur Co., 17 Battery Pl., having plans prepared by H. O. Chapman, archt. and engr., 334 5th Ave., for 14 story, 30 x 89 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Rector and West Sts. About $400,000.

N. Y., Schenectady — Theatre — F. F. Proctor, 1564 Bway., New York City, having plans prepared by J. M. Merron, archt. and engr., 1564 Bway., New York City, for brick and steel, here. About $400,000.

N. J., Elizabeth—High School—Bd. Educ. plans to build 24 room school. About $700,000. V. Myralag, mayor.

N. J., Franklin—School—Bd. Educ. receives bids about Sept. 1, building 2 story, 60 x 100 ft., brick and stone addition, stone foundation. About $150,000. Guilbert & Betelle, 2 Lombardi St., Newark, Archt.

N. J., Madison — Convent — Sisters of Charity plan to build addition to St. Elizabeth's Convent here. About $350,000. Architect not selected.

N. J., Morris Plains—Infirmary—State Hospital Comn., Trenton, plans to build 3 story, 88 x 230 ft., brick and steel. About $400,000. F. H. Bent, 142 West State St., Trenton, archt.

N. J., Newark—Office—Bd. Trade, 800 Broad St., soon receives bids building 10 story, steel, brick and stone, on North Treat Pl. About $1,000,000. Guilbert & Betelle, 2 Lombardi St., archt.

N. J., Newark—School—Bd. Educ. soon receives bids building 4 story, 106 x 128 ft. addition to Cartaret School on Oliver St., concrete and brick. Cost to exceed $100,000. J. H. and W. C. Ely, Firemans Trust Bldg., archts. Noted July 22.

N. J., West Orange—School—Bd. Educ. having sketches made by Guilbert & Betelle, archts., 2 Lombardi St., Newark, for Gregory School, brick and stone. About $450,000.

Pa., Altoona—Community Hall—City having plans prepared by J. Millard archt., Hutchinson Bldg., and F. D. Hain, city engr., for 3 story, concrete, brick and steel, on 13th Ave. and 12th St. About $500,000. Election Nov. 2 to vote on bonds.

Pa., Altoona—Theatre—J. and I. Silverman, 1512 11th Ave., having plans prepared by H. C. Hodgens, archt., 130 South 15th St., Phila., for 3 story, 150 x 200 ft., concrete, brick and steel, tile flooring, on 11th Ave. About $300,000.

Buildings (Continued)

Pa., Phila.—Office—M. Fielding, archt., 520 Walnut St., soon lets contract altering 4 story, concrete and brick, on 12th and Chestnut Sts. About $100,000. Owner's name withheld.

Pa., Reading—Hospital—Reading Hospital, Front and Spring Sts., plans to build addition. Cost to exceed $100,000. E. F. Stevens, 9 Park St., Boston, Mass., archt.

Pa., Roxborough (Phila. P. O.)—Club—Green Valley Country Club having plans prepared by J. S. Fuller, archt. and engr., 1537 Chestnut St., for 2 story, 50 x 80 ft., granite addition to include laying gravel walks, etc. About $100,000.

Pa., Sipesville—Bank—Sipesville First Natl. Bank plans to build 3 story, 80 x 100 ft. concrete, brick and steel. About $100,000. C. B. Korns, pres.

Md., Baltimore — Club — Maryland Club, Charles and Read Sts., plans to improve building. About $100,000.

Md., Baltimore—Hospital—J. E. Sherry, archt., 409 Calvert Bldg., opens bids about Sept. 15, building 7 story, 70 x 185 ft., rein.-con. and brick addition to Woman's Hospital, concrete foundation, on Wolfe and Monument Sts., for Johns Hopkins Hospital About $125,000. W. Smith, Bway. and Monument St., supt.

Md., Baltimore—Office—C. N. Friz, archt., 814 Lexington Bldg., revising plans and receives bids about Sept. 5, building 10 story, 90 x 140 ft. steel, brick and stone, concrete foundation, on Courtland and Franklin Sts., for Standard Oil Co., Pratt and South Sts. About $850,000. Noted April 15.

Md., Salisbury—Hotel—Shoremans Hotel Corp. soon lets contract building 5 story, 71 x 149 ft. rein.-con., steel and brick, concrete foundation. About $250,000. J. Posey, 11 East Pleasant St., Baltimore, engr. T. W. Pietsch, Amer. Bldg., Baltimore, archt.

D. C., Wash.—Church and Chapel—Gunton Memorial Temple, Mathers Bldg., soon receives bids building church and temple. About $100,000 and $60,000 respectively. G. A. Prevost, chn. D. H. Smith, Union Trust Bldg., archt.

N. C., Greensboro—Community Houses—White Oak & Proximity Mills had plans prepared for 2 rein.-con. community houses, near here. About $250,000 each. T. Stafford, c/o Proximity Mills, ch. engr. Architect's name withheld.

N. C., Kernersville — School — Bd. Educ. plans to build school. About $100,000. A. Armfield, Greensboro, archt.

S. C., Columbia — Administration — Epworth Orphanage, Garners Ferry Rd., plans to construct new administration building. About $100,000.

Fla., Orlando—Hotel—F. H. Trimble, archt., Orlando, and associates, plan to build $1,000,000 hotel.

Tenn., Memphis—Church—La Belle Baptist Church having plans prepared by C. Deas, archt., Goodwyn Trust Bldg., and receives bids about October for brick and stone, on South Wellington St. and Edith Pl. About $100,000. D. A. Ellis, 462 Edith Pl., pastor.

Tenn., Memphis — Temple — Trades & Labor Council plans to build 65 x 168 ft. labor temple, on North 2nd St. About $250,000. A. Schwaeb, pres. Architect not selected.

Ky., Bowling Green—Hotel—G. M. Williamson plans to build 6 story hotel. About $700,000.

O., Cheviot (Cincinnati P. O.)—Bank—Garber & Woodward, archts., Union Central Bldg., Cincinnati, soon let contract building 2 story, 47 x 60 ft., brick and cut stone addition, on Glenmere and Harrison Aves., for Brighton Bank & Trust Co., Harrison and Coleraine Aves. About $100,000.

O., Cincinnati—Synagogue—Keneseth Israel Congregation, Hickman St., plans to build brick and steel, on Rochdale and Washington Sts. About $100,000. H. M. Price, Mercantile Library, archt.

O., Cleveland—Commercial—Chafer Co., 431 Champlain Ave., plans to build 4 story, brick and steel, brick foundation. About $100,000. J. E. Shafer, pres. Architect and engineer not selected.

O., Cleveland—Hospital—City having plans prepared for 3 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Scranton Rd. About $3,500,000. J. H. McDowell, city archt. S. S. Goldwater, 1 East 100th St., New York City, consult. archt. Noted May 6.

ROAD WORK—IDAHO

Bids were received by Bureau of Public Roads, Missoula, Mont., for constructing r in Nez Perce National Forest, Idaho Co., from (A) Otto Hansen, Empire State B Spokane, Wash.; (B) Rich, Markus & Crowe, Missoula; (C) General Constr. Co., Pey The unit bids were as follows:

	A	B	C
31.66 acres clearning, with burning	$200.00	$250.00	$22
16.17 acres grubbing	200.00	250.00	30
48,325 cu.yd. excavation (rock)	2.00	2.25	
91,627 cu.yd. excavation (common)	.90	1.00	
6,000 sta.yd. overhaul	.05	.10	
11.17 mi. finishing earth road	200.00	200.00	150
644.4 cu.yd. dry rubble masonry retaining wall	10.00	6.00	8
1,073 lin.ft. 1x2 log culverts in place	3.00	1.50	4
50 lin.ft. 1½x2 log culverts in place	3.50	1.75	4
206 lin.ft. 2x2 log culverts in place	3.75	2.00	4
78 lin.ft. 2x3 log culverts in place	5.00	2.25	5
72 lin.ft. 3x3 log culverts in place	5.50	3.00	6
324 sq.ft. log bridge abutments in place	1.00	1.50	
48 lin.ft. bridge decking	10.00	12.00	11
Extended totals	$203,415	$222,579	$232,66
Alternate:			
31.66 acres clearing, without burning	$175.00	$240.00	$200
1,073 lin.ft. 12-in. corrugated metal pipe in place	2.75	2.25	3
50 lin.ft. 18-in. corrugated metal pipe in place	3.90	3.25	5
206 lin.ft. 24-in. corrugated metal pipe in place	5.25	4.25	6
78 lin.ft. 30-in. corrugated metal pipe in place	7.50	5.50	7
72 lin.ft. 36-in. corrugated metal pipe in place	9.50	6.00	8
Extended totals	$203,959	$224,391	$232,532
East Side of River:			
14.6 acres clearing, with burning	200.00	250.00	225
7.3 acres grubbing	200.00	250.00	300
22,947 cu.yd. excavation (rock)	2.00	2.25	2
34,729 cu.yd. excavation (common)	.90	1.00	1
Extended totals	$81,530	$91,835	$99,400
Alternate for East Side of River:			
14.6 acres clearing, without burning	$175.00	$240.00	$200
Extended total	$2,555	$3,504	$2,920
Main sub-total	203,415	222,579	232,665
Main alternate subtotal	203,959	224,391	232,532
100,000 lb. T.N.T. (subtract)	15,000	27,000	15,000
20,000 detonators, fuse fire, No. 8 (subtract)	500	400	600
Main subtotal	$187,915	$195,179	$217,065
Main alternate subtotal	$188,459	196,991	216,932
Freight on explosives	3,000	3,000	3,000
Engineering and contingencies	14,000	14,000	14,000
Extended main total	$204,915	$212,179	$234,065
Extended main alternate total	$205,459	$213,991	$233,932

O., Cleveland—Office—Syndicate, c/o J. Laronge, 214 Williamson Bldg., plans to build 2 story, rein.-con., brick and steel addition, rein.-con. flooring, concrete foundation, at rear 1900 Euclid Ave. About $150,000. Architect not selected.

O., Fairport—Theatre—E. E. Lawrence having plans prepared by R. H. Hinsdale, archt., Bangor Bldg., Cleveland, for 1 story, 44 x 112 ft. rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $100,000.

Mich., Detroit — Club — Detroit Council 305, Knights of Columbus, c/o Columbus Bldg. Co., 930 Woodward Ave., plans to build 3 story, brick, concrete, stone and steel, rein.-con. flooring, concrete foundatoin, on Woodward Ave. About $500,000. Architect not selected.

Mich., Detroit — Temple — Congregation Temple Beth El, 580 Woodward Ave., plans to build 2 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on 153 x 200 ft. lot on Woodward Ave. About $1,000,000. A. Kahn, Marquette Bldg., archt. and engr.

Mich., Saginaw—Office, etc.—Amer. Safety Navigation Co., c/o Managing Secretary Bd. Commerce, having tentative plans prepared for first unit of plant, to include 6 story office building and 1 story factory, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on 6th St. along Saginaw River. Total cost, $10,000,000. Private plans.

Wis., Clintonville—Armory and Community—City plans to build 4 story, 100 x 200 ft. rein.-con. brick and steel on Main St. About $100,000. J. Spearbraker, clk Architect not selected.

Wis., Durand—High School—Bd. Educ. plans to build 2 story, brick, concrete and tile, rein.-con. flooring, concrete foundation. About $100,000. H. Miles, secy. Architect not selected.

Wis., Hartford—High School—Bd. Educ. plans to build 4 story, 130 x 300 ft. Junior High School, brick, rein.-con. and steel, brick foundation. About $500,000. A. Sawyer, Hartford, chn. Architect not selected.

Ia., Cloverdale—School—Bd. Educ. voted $100,000 bonds to build school. Architect not selected.

Ia., Coon Rapids—School—Bd. Educ. having plans prepared by Kieffer & Jones, archts., Masonic Temple, Des Moines, for 2 story, rein.-con., brick and steel, rein.-con. flooring, concrete flooring. About $100,000.

Ia., Mason City — Temple — Masonic Cathedral Assn. plans to build rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $250,000. Architect and engineer not selected

Ia., Red Oak—School—Bd. Educ. plans to build school. About $110,000 Architect not selected.

Minn., Albert Lea — Church — First Lutheran congregation plans to build church here. About $100,000. Architect not selected.

Minn., Bemidji—High School—Bd. Educ. plans to build 3 story, rein.-con. and brick high school. About $500,000. Architect not selected.

Minn., Duluth—Schools—City having plans prepared by Croft & Boerner, archts., Lonsdale Bldg., for school in Chester Park Dist., cost $200,000, addition to Stowe School on 101st and Grand Aves., $100,000, and addition to Morgan Pk. School, $100,000. Bonds voted for above projects.

Minn., Fergus Falls—Hotel—City plans to build 150 room, rein.-con. and brick. About 150,000. Architect not selected.

Minn., Lake Park—School—Bd. Educ. rejected bids July 27, building 2 story, 60 x 90 ft., brick and frame. Noted July 8.

Minn., St. Paul—Club and Hall—German Hall Bldg. Assn., c/o J. K. Schmit, 623 Fuller Ave., plans to build 3 story, 110 x 120 ft., brick and stone, on Rice and Aurora Sts. About $200,000.

Minn., Wayzata — School — Bd. Educ. having revised plans prepared and receives bids in fall building 1 story rein.-con. and brick. About $270,000. Hewitt & Brown, 716 4th Ave. S., and Tyrie & Chapman, 320 Auditorium Bldg., Minneapolis, archts. Noted May 13.

Kan., Coffeyville — High School — City voted $350,000 bonds to build Junior High School, brick, rein.-con. and steel, rein.-con. flooring, concrete foundation. Architect not selected.

Buildings (Continued)

Neb., Bellevue—Seminary—Chinese Mission Society plans to build seminary. About $650,000. Address, E. J. McCarthy, 5035 Bedford Ave., Omaha.

Neb., Belvidere—School—Bd. Educ. plans to build 3 story, 56 x 94 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $110,000. W. E. Hulse & Co., Hutchinson, Ky., archts.

Neb., Gering—School—Bd. Educ. plans to build school in 2d Ward. About $120,000. Architect not selected.

Neb., Hastings—Club—Elks Lodge plans to build 4 story, rein.-con. and brick, rein.-con. flooring. About $200,000. Architect not selected.

Neb., Nebraska City—Memorial—City Comrs. plan election to vote on $100,000 bonds to build soldiers' memorial. F. Cook, clk.

Mo., Kansas City—Sales—R. P. Dice Motor Sales Co., 3823 Bway., had plans prepared by Smith, Rea and Lovitt, archts., Finance Bldg., constructing 3 story, 60 x 123 ft., rein.-con., brick and terra cotta, on 14th and Baltimore Sts.

Mo., St. Louis—Church—Eden Emanuel Church had plans prepared by Lee & Rush, archts., Syndicate Trust Bldg., for brick and timber. About $100,000.

Mo., St. Louis—Hospital—Sisters of Charity, 3529 Pine Blvd., having preliminary plans prepared by Lee & Rush, archts., Syndicate Trust Bldg., for rein.-con. and brick, rein.-con. flooring. About $2,000,000.

Mo., St. Louis—Institution—Little Sisters of the Poor having plans prepared by Lee & Rush, archts., Syndicate Trust Bldg., for brick addition. About $250,000.

Mo., St. Louis—Office—Central States Life Insurance Co., Central Natl. Bank Bldg., soon receives bids constructing rein.-con. and brick. About $150,000. T. P. Barnett Co., Arcade Bldg., archts. and engrs.

Mo., St. Louis—Office—Widman, Walsh & Pankan, archts., Wainwright Bldg., open bids about Sept. 15, building 4 story, 144 x 250 ft., rein.-con. and brick, rein.-con. flooring, on Olive St., for Lowenstein Bros. Real Estate Co., Wainwright Bldg. About $750,000.

Mo., St. Louis—School—Washington University, Skinker and Lindell Sts., having plans prepared by Cann & Corrubia, archts., De Menil Bldg., for 3 story, 35 x 85 ft., rein.-con. and brick. About $100,000.

Tex., Austin—Hospital—State Bd. Control having plans prepared by C. H. Page & Bro., archts., Austin Natl. Bank Bldg., for 2 story, rein.-con., on West 6th St., for Texas State Confederate Home. About $110,000. S. B. Corvell, chn.

Tex., Dallas—Theatre—J. H. Jones, 708 Goggan Bldg., Houston, having plans prepared by Lang & Mitchell, archts., Amer. Exch. Natl. Bank Bldg., for 4 story, 100 x 150 ft., rein.-con. on Commerce and Prather Sts. About $300,000.

Tex., Ft. Worth—Home—Comrs. Tarrant Co. having plans prepared by Sanguinett & Staats, archts., 1st Natl. Bldg., for 2 story concrete and brick, concrete foundation. About $100,000. R. V. Glenn, engr.

Okla., McAlester—Temple—Abbott Pike Lodge having plans prepared by Thompson & Harding, archts., 504 Southern Trust Bldg., Little Rock, Ark., for 5 story, brick, rein.-con. and steel, rein.-con. flooring, concrete foundation. About $500,000.

Col., Denver — Office — See "Industrial Works."

Col., Greeley—Hospital—Weld Co. having plans prepared by W. N. Bowman, archt., Central Savings Bank Bldg., Denver, for 3 story, 40 x 130 ft., rein.-con., brick and steel addition, rein.-con. flooring, concrete foundation. About $110,000.

Cal., Los Angeles—Theatre—A. R. Erlanger, 214 West 42nd St., New York City, plans to build brick and stone, here. About $500,000. R. R. Anderson, 214 West 42nd St., New York City, archt. and engr.

Cal., San Francisco—Theatre—A. R. Erlanger, 214 West 42nd St., New York City, plans to build brick and stone, here. T. R. Anderson, 214 West 42nd St., New York City, archt. and engr. About $500,000.

N. S., North Sydney—Office—See "Industrial Works."

BIDS DESIRED

Conn., Hartford—High School—Until Sept. 7, by Bd. Educ., building 3 story, 90 x 160 ft., brick, concrete, steel and stone, rein.-con. flooring, brick and concrete foundation, on Maple Ave. About $750,000. Whiton & McMahon, 36 Pearl St., archts. Noted Feb. 26.

Conn., Waterbury—Hospital—Until Sept. 15, by City Health Bd., building 2 story brick, concrete and steel, rein.-con. flooring, concrete foundation, on Watertown Ave. About $200,000. Cross & Cross, 681 5th Ave., New York City, archts. Noted Aug. 5.

N. Y., Brooklyn—Hospital—Until Sept. 20, by Dept. Pub. Welfare, Municipal Bldg., New York City, furnishing labor and material for general construction and electrical work excluding plumbing, heating and ventilating, for hospital on New Cumberland St., here. B. S. Coler, comr. Former bids rejected. Noted June 17.

N. Y., Great Neck—Schools—Until Sept. 10, by W. S. Bessell, archt. and engr., 56 West 45th St., New York City, building two 2 story, brick and stone, brick foundation, for Bd. Educ. About $400,000. Noted Aug. 19.

N. J., Glassboro—School, etc.—Until Sept. 14, by F. H. Bent, archt., 142 West State St., Trenton, building 3 story, 125 x 301 ft. school and 1 story, 41 x 48 ft. boiler plant, rein.-con., brick, steel and terra cotta, here, for State Bd. Educ., Trenton. About $700,000. Noted July 29.

N. J., Newark—Office—J. H. and W. C. Ely, archts., Firemans Trust Bldg., receiving bids building 16 story, 100 x 200 ft. concrete, steel and stone, on Broad and Clinton Sts., for Merchants Natl. Bank, 770 Broad St.

O., Cincinnati — Clubhouse — University Club, 4th St. and Bway., receiving bids remodeling 4 story, 50 x 125 ft., rein.-con., brick and steel, concrete foundation. About $100,000. Noted June 10.

Mich., Detroit—Library—Until Sept. 6, by Library Comn., building 2 story, 60 x 100 ft., brick, rein.-con. and steel, rein.con. flooring, concrete foundation, on Davison Rd. About $100,000. Donaldson & Meier, 1314 Penobscot Bldg., archts. Noted July 29.

Mich., Detroit—Schools—Until Sept. 8, by Bd. Educ., building 2 story, 56 x 100 ft. addition to Lincoln School, on Brady and Livingstone Sts., also 2 story, 85 x 120 ft. addition to Thirkell School on 14th Ave. and La Salle Gardens North, rein.-con., brick and steel, rein.-con. flooring, concrete foundations. Malcolmson, Higginbotham & Palmer, 405 Moffat Bldg., archts.

Ia., Decorah—Library—Until Aug. 30, by Magney & Tusler, archts., 450 Builders Exch., Minneapolis, constructing 2 story, 70 x 80 ft., brick and stone, at Luther College, here. About $100,000. C. K. Preus, pres.

Minn., Montevideo — School — Until Sept. 14, by Bd. Educ. building 2 story rein.-con. and brick. About $125,000. W. B. Ittner, Bd. Educ. Bldg., St. Louis, Mo., and Stebbins & Haxby, 450 Auditorium Bldg., Minneapolis, archts.

Tex., Austin—Administration, Dormitory, etc.—Until Aug. 30, by Dept. Educ., constructing 40 x 80 ft. administration building, 40 x 80 ft. dormitory and 30 x 32 ft. heating plant, all 2 story, brick, rein.-con. and steel, rein.-con. flooring. About $110,000. A. W. Blanton, secy. Rose & Reed, 208 Bankers Trust Bldg., Waco, engrs.

Tex., Austin—Hospital—Until Aug. 30, by S. B. Cowell, ch. State Bd. Control, building 2 story, brick, rein.-con. and steel, rein.-con. flooring, on West 6th St. C. H. Page & Bro., Austin Natl. Bank Bldg., archts.

Tex., Edinburg—Jail and Court House—Until Sept. 15, by G. P. Brown, judge Hidalgo Co., building 2 story, 42 x 118 ft., brick, rein.-con. and steel, rein.-con. flooring. About $100,000. H. F. Kuehne, 824 Littlefield Bldg., Austin, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Arlington** (Boston P. O.)—School—Town let contract building 3 story, 63 x 140 ft., brick, rein.-con. and steel, rein.-con. flooring, on Acton St., to M. N. Ryan, 2 Central Sq., Cambridge. About $230,000.

★**Mass., Boston**—Bank and Business—Workingmen's Co-operative Bank, 101 Tremont St., let contract building 7 story, 45 x 75 ft., brick, concrete, steel and stone, rein.-con. flooring, concrete foundation, on Cornhill St., to W. A. and H. A. Root, Inc., 1 Beacon St. Cost between $150,000 and $175,000. Noted July 29.

Mass., North Beverly (Beverly P. O.)—School—Bd. Educ. received low bid Aug. 16, building 2 story, 100 x 102 ft., brick and steel, concrete foundation, on Conant St., from G. H. Hurd, 12 Giddings Ave., Beverly, $126,940. Noted Aug. 12.

★**Mass., Springfield**—Synagogue—Sons of Jacob congregation, 69 Belmont Ave., let contract building 1 story, 50 x 66 ft., brick, concrete and steel, concrete foundation, on Congress Ave., to F. Shour, 63 Church St. About $100,000.

★**Mass., Worcester**—Convent—St. Paul Roman Catholic Society, c/o E. P. Fitzgerald, archt., State Mutual Bldg., let contract building 3 story, 42 x 80 ft., concrete, brick and steel, concrete foundation, on High St., to J. J. Roberts, 4 Wall St.

★**N. Y., New York**—Office—See "Industrial Works."

★**N. Y., Poughkeepsie**—Church and Parish House—Dutch Reformed Society let contract building 3 story, brick, concrete and steel, rein.-con. flooring, concrete foundation, on Hanscom Ave., to G. D. Campbell, 52 Market St. About $300,000.

★**N. J., Clinton**—Maternity Cottage, etc.—State Hospital Comn., Trenton, let contract building 2 story, 40 x 80 ft. maternity cottage and 59 ft. laundry, here, brick and steel, to Carroll & Pullen, Branch Ave., Princeton, $84,871 and $27,057 respectively.

★**Pa., Chambersburg** — Hospital — Chambersburg Hospital let contract altering and building 4 story, 45 x 150 ft., brick and concrete addition, to J. H. Eroh, Chambersburg. About $100,000.

★**Pa., Easton**—Martin & Kirkpatrick, archts., 130 South 15th St., Phila., let contract to Wark & Co., 239 South Broad St., Phila., constructing 4 story, 105 x 125 ft., brick, stone and concrete building, for Y. M. C. A., 9 Centre Sq., here. About $450,000. Noted July 22.

★**Pa., Johnstown** — Housing — Cambria Steel Co. let contract building one hundred 2 story 25 x 40 ft., brick and concrete dwellings, in Overbrook Sect., Southmont, to Nicola Constr. Co., Pennsylvania and Denniston Aves., Pittsburgh. About $400,000.

★**Pa., Philipsburg** — Hotel — Philipsburg Hotel will build 6 story, 80 x 100 ft., brick and stone. Cost to exceed $100,000. Work will be done by day labor. Noted Feb. 12.

★**O., Cleveland** — Bank — Morris Plan Bank, East 6th St. and Rockwell Ave., let contract building 2 story, 30 x 150 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Huron Rd. near East 9th St., to Central States Eng. Co., Citizens Bldg. About $200,000. Noted Aug. 12.

★**O., Cleveland** — Commercial — Knight-Norris-Gibbs Co., Wurlitzer Bldg., let contract building 4 story, 64 x 130 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on East 21st St. and Oregon Ave., to Serv. Constr. Co., 6110 Euclid Ave. About $200,000.

★**O., Cleveland** — Sales — Templar Realty Co., c/o M. Marmorstein, Williamson Bldg., let contract building 1 story, 60 x 180 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to Serv. Constr. Co., 6110 Euclid Ave. About $100,000.

★**O., Cleveland**—Store—May Co., Ontario St., let contract remodeling 2 story brick, steel and terra cotta, to J. E. Christian & Co., 1307 St. Clair Ave. About $100,000. Noted Aug. 12.

★**O., Cleveland**—Synagogue—Ohr Chudose Beth Jacob Anshe Sfard-Congregation, c/o B. Gittlesohn, 2564 East 38th St., let contract building 2 story, 50 x 160 ft., brick and steel, brick foundation, on East 105th St. and Armor Ave., to A. Schwarts, 3599 East 131st St. About $100,000.

★**O., New Concord**—Dormitory—Muskingun College let contract building 2 story, 110 x 180 ft. fireproof, on college grounds, to Duiezweiler Bros., Zanesville. About $175,000; cost plus percentage basis.

★**Ind., Indianapolis**—Hospital—Methodist Hospital let contract building 6 story, 80 x 170 ft., rein.-con., brick and steel addition, rein.-con. and cork flooring, on 16th Ave., to J. G. Karstedt Constr. Co., Lemcke Bldg. Noted Aug. 12.

★**Ind., Lafayette** — Store — Hub Clothing Co. let contract building 4 story, 60 x 95 ft., rein.-con., brick and steel, rein.-con. flooring, to A. E. Kemmer, 644 North 7th St.

★**Ind., Lafayette**—Theatre—Luna Amusement Co. let contract building 2 story, 77 x 100 ft., rein.-con., brick and steel, rein.-con. flooring, to A. E. Kemmer, 644 North 7th St.

★**Ind., Onward** — School — Bd. Educ. let general contract building 2 story, 80 x 125 ft., brick and stone, to S. I. Barnes, Logansport, $95,000; heating, to Orth Plumbing Co., Lafayette, $25,000.

Buildings (Continued)

Mich., Detroit—Schools—Bd. Educ., 50 Bway., received bids Aug. 11, building (1) addition to Leland School, (2) Carstens School, (3) Cooper School, (4) Custer School, (5) addition to Crossman School, (a) masonry, (b) carpentry, (c) heating, ventilating and plumbing, (d) electrical wiring, from J. Bollin Co., 906 Bellevue Ave., (1a) $117,490, (5a) $94,885; Corrick Bros., 507 Owen Bldg. (1a) $122,922, (2a) $80,500, (4a) $247,737; F. N. Cooper, Penobscot Bldg., (1a) $126,000; W. W. Horen, 470 Dix Ave., (1b $47, 992; H. M. Martens, 221 Moffat Bldg., (1b) $48,200, (4b) $66,800; E. Thiede, 287 Berlin St., (1b) $51,950, (2b) $32,595, (3b) $85,530, (4b) $65,950; Drake Avery Co., 40 State St., (1c) $91,915, (4c) $91,212; (5c) $51,821; Hub Electric Co., 41 East Jefferson Ave., (1d) $8,451, (4d) $15,980, (5d) $11,345; Iron City Eng. Co., 1332 Dime Bank Bldg., (1d) $8,620, (2d) $7,572, (3d) $12,650; J. Miller Electric Co., 258 Randolph St., (1d) $8,970, (3d) $12,668; W. H. Mueller, 1531 Vinewood St., (2a) $73,915; A. W. Kutche, 1742 3rd St., (2d) $76,200, (4a) $260,543; McEnhill Bros., 637 Baker Ave., (2b) $35,-981; W. J. Rewoldt, 506 Owen Bldg., (2c) $62,108; Irvine & Meier, 2289 Woodward Ave., (2c) $64,389, (4c) $96,293; J. H. Busby, 36 Cherry St., (2d) $7,800, (4d) $16,477, (5d) $11,178; Cooper Weidenmann Constr. Co., 1430 Penobscot Bldg., (3a) $191,270; Brayton Eng. Co., 907 Kresge Bldg., (3a) $197,379; Lennane Bros., 809 Union Trust Bldg., (3a) $225,338; Harcus & Co., 774 Russel St., (3b) $87,128, (4b) $66,896; J. W. Partlan, 51 Park Pl., (3c) $93,800, (5c) $53,886; Central Electric Co., 96 Bway., (2d) $13,275; (5d) $10,900; F. H. Goddard, 516 Franklin St., (4a) $251,-986; O'Connor Bros., Owen Bldg., (4c) $98,-115, (5c) $54,195; Gray Electric Co., 71 Jones St., (4d) $15,687; M. A. Mahoney, Penobscot Bldg., (5a) $84,848; H. G. Christman Co., 315 Stevens Bldg., (5a) $99,000; Southwick Pom Co., 1244 St. Jean Ave., (5b) $29,668. Noted July 22.

★**Minn., St. Paul**—Theatre, etc.—A. H. Heinmach, 467 Roy St., will build 3 story, 71 x 110 ft., rein.-con. and brick, on Prior Ave. About $200,000. Work will be done by day labor.

★**Neb., Omaha**—Lodge Bldg.—Woodmen of the World, c/o W. A. Fraser, W. O. W. Bldg., let general contract building 6 story, 44 x 132 ft., rein.-con., brick and steel, on 13th and Farnam Sts., to Vaughn Constr. Co., W. O. W. Bldg. About $150,000.

★**Mo., St. Louis**—Mercantile—Boyd Clothing Co., 7th and Olive Sts., let contract building 6 story, 88 x 150 ft., rein.-con. and brick, rein.-con. flooring, on Olive St., to J. Hill Constr. Co., Syndicate Trust Bldg. About $400,000.

★**Okla., Oklahoma**—Theatre—J. Sinopolou let contract building rein.-con. and brick, to Gross Constr. Co., 132½ West 2nd St. About $150,000.

★**Col., Sargents**—School—School Dist. let contract building 3 story, 100 x 130 ft. rein.-con. and brick, concrete foundation, to W. R. Sharpe, Monte Vista, $90,000; plumbing and heating, to Johnson-Davis Plumbing & Heating Co., Denver, $11,000.

★**Cal., Pt. Loma**—Club, etc.—California Natl. Club, 1023 2nd St., San Diego, let contract to Simpson Constr. Co., Marshall-Strong Bldg., Los Angeles, constructing club, $700,000, servants' building and garage, $100,000, bathing pavilion, $35,000, also golf links, $150,000, on Sunset Cliffs.

★**Ont., Ottawa**—School—School Bd. let contract building York St. School, to Bate MacMahon, Elgin St. About $458,000.

Federal Government Work

PROPOSED WORK

D. C., Washington—Electric Traveling Crane—Spec. 4239—Bureau Yards & Docks, Navy Dept., rejected bids received July 28 furnishing and installing 40 ton electric traveling bridge cranes for shipbuilding slips at Navy Yards at Phila., New York and Norfolk, Va. Work will be readvertised. Noted Aug. 19.

D. C., Wash.—Road Work—Bureau Pub. Rds., U. S. Dept. Agriculture, rejected bid received Aug. 18, grading dirt road in North Carolina, South Carolina and Georgia, known as Three State Project.

Wyoming—Irrigation—Federal Government Engineers making surveys in Valley of North Platte River, west of Casper, with view to possible irrigation of 7,500 acres. Alternate dam sites in Bessemer Canyon and Alcova will be considered.

Cal., San Diego—Hospital, Warehouse, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids building naval hospital, warehouse, repair base, shipyard and training station.

BIDS DESIRED

Del., Wilmington—Removing Wreck—Until Sept. 7, by U. S. Engr. Office, Old Federal Bldg., removing sunken steamer Sylvan Dell from Salem, N. J., the wreck to become property of contractor; advertised in this issue.

S. C., Paris Island—Improving Hospitals—Spec. 4262—Until Sept. 8, by Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing, here; $10 deposit required for plans and spec. Noted Aug. 19.

Fla., Jacksonville—Pontoon Catamarans—Until Sept. 15, by U. S. Engr. Office, building and delivering, for dredge Major J. C. Mallery; advertised in this issue.

Miss., Vicksburg—Levee Work—Until Sept. 3, at office of 3d Mississippi River Dist., Box 404, building 260,000 cu.yd., here; advertised in this issue.

Tenn., Nashville—Barges—Until Sept. 13, by U. S. Engr. Office, 4th and 1st Natl. Bank Bldg., for 4 steel barges; advertised in this issue.

Ky., Louisville—Structural Steel, etc.—Until Sept. 9, by U. S. Engr. Office, furnishing and delivering structural steel, castings, etc., for Lock 44, Ohio River; advertised in this issue.

O., Marblehead—Lifeboat House and Accessories—Until Sept. 15, by Treas. Dept., Wash., D. C., constructing for Coast Guard at Sta. 241 here. J. A. Wetmore, superv. archt.

Minn., St. Paul—Electric Freight Lift, etc.—Until Sept. 14, by Treas. Dept., Wash., D. C., installing complete electric freight lift, hoistway, etc., in U. S. Post Office, Courthouse and Customhouse, here J. A. Wetmore, superv. archt.

Oregon—Road Work—Until Aug. 30, by Bureau Pub. Rds., 204 Post Office Bldg., Portland, crushing, hauling and laying rock surfacing on 6 mi. road from Prospect to Union Creek, Jackson Co., involving 12,000 cu.yd. crushed rock surfacing; grading 3 mi. road from Tiller to Drew, Douglas Co., involving 45,000 cu.yd. general excav., 14 acres clearing, 675 ft. culverts and timber trestle. C. H. Purcell, Post Office Bldg., Portland, dist. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Boston—Removing and Installing—Treas. Dept., Wash., D. C., received bids removing old conduit and installing new main, here, from M. Serretto, $2,973; T. F. Jackson, 99 John St., New York City, $6,389.

★**Mass., Fall River**—Remodeling Post Office—Treas. Dept., Wash., D. C., let contract remodeling, here, to R. M. Kearns, 692 Washington St., New York City, $13,244. Noted Aug. 5.

D. C., Wash.—Dispensary—Spec. 4226—Bureau Yards & Docks, Navy Dept., received lowest 3 bids Aug. 18, building, at Navy Yard, here, (1) work complete, from W. F. Martens, 244 Cutler Bldg., Rochester, N. Y., (1) $104,402 (180 days), (2) $81,-180, (3) add $1,800, (4) deduct $975, (5) deduct $1,175; Boyle Robertson Constr. Co., Evans Bldg., (1) $135,461, (2) $103,988, (3) add $1,400, (4) deduct $200, (5) deduct $900; G. E. Wyne, Home Life Bldg., (1) $135,950 (180 days), (2) $103,950, (3) add $1,400, (4) deduct $200, (5) deduct $900. Noted July 29.

Va., Front Royal—Post Office—Treas. Dept., Wash., D. C., received bids Aug. 13, building, here, from King Lumber Co., Charlottesville (1) $54,700, (2) $54,500; Charlottesville Lumber Co., Charlottesville, (1) $46,892, (2) $46,992. Noted July 1.

★**Va., Hampton Roads**—Electric Underground Distributing System—Spec. 4240—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing in 3 storehouses on Block "Z," at Naval Operating Base, here, to J. R. Proctor, 74 Cortlandt St., New York City, $34,880 (150 days). Noted Aug. 19.

★**O., Cincinnati**—Metal Work—U. S. Engr. Office, 415 Customhouse, let contract for metal work for Dam 34, Ohio River, to General Iron Wks. Co., Front and Harriet Sts., $12,378.

O., Cleveland—Boiler—Treas. Dept., Wash., D. C., received bids remodeling old boiler and installing new one in Marine Hospital, here, from J. B. Casey Co., Chicago, $8,360; Becker Seidel Co., Cleveland, $10,200; Whittlesey Eng. Co., Cleveland, $11,457. Noted Aug. 5.

Minnesota—Road Work—Bureau Pub. Rds., Post Office Bldg., Minneapolis, received bids Aug. 12, building 15 mi. Nat. Forest Rd. Project in Minnesota Nat. Forest, Cass Co., from Latvalla, Lake Lidberg, Grand Rapids, $144,097; S. Groves & Sons Co., Russell Ave. N. and Superior Blvd., Minneapolis, $151,919; J. McKusick, Hibbing, $156,449. Noted Aug. 5 under "Streets and Roads."

N. M., Ft. Stanton—Boiler—Treas. Dept., Wash., D. C., received only bid Aug. 16, installing in power plant, here, from J. R. Proctor, Inc., 74 Cortlandt St., New York City, (1) $39,990, (2) $36,990 (3) $39,490, (4) $36,490 (300 days). Noted July 29.

★**Wash., Seattle**—Dredging—U. S. Engr. Office, Burke Bldg., let contract dredging harbor at Port Gamble, to Puget Sound Bridge & Dredge Co., Central Bldg., $30,875. Noted July 15.

★**Cal., San Francisco**—Deep Well—Treas. Dept., Wash., D. C., let contract building at Quarantine Sta., here, to J. B. Rogers, 110 Suttle St., $2,860

Cuba, Guantanamo—Pier—Spec. 4165—Bureau Yards & Docks, Navy Dept., Wash., D. C., received only bid Aug. 18 building at Naval Sta. here (1) work complete, from M. F. Kelley, 51 East 42d St., New York City, (1) $179,551 (240 days), (4) add $6,000 for each additional 10 ft. bay, (7) add $1.90 per ft. for each additional foot, (8) add $3 per ft. for each additional foot deduct $2 for each foot less than specified lengths. Noted July 22.

Miscellaneous

PROPOSED WORK

Swimming Pool—Noroton, Conn.—J. A. Harris, Collenders Point, soon lets contract building 50 x 110 ft., concrete and marble swimming pool, here. About $50,000.

Dam—Windsor Locks, Conn.—Connecticut River Co., 201 Devonshire St., Boston, plans to build 30 x 2,000 ft. rein.-con. dam on Connecticut River. Private plans.

Wood Paving Blocks—Brooklyn, N. Y.—F. Riegelmann, boro. pres., received no bids Aug. 11, furnishing and delivering 40,000 wood paving blocks. Work will be readvertised.

Vehicular Tunnel—New York, N. Y.—New York State and New Jersey Tunnel Comn., Hall of Records, open bids about Sept. 21, building 9,000 ft., rein.-con. and c.i. vehicular tunnel from here to Jersey City. About $28,760,000. J. M. Holland, Hall of Records, engr.

Heating System, etc.—Jacksonville, Fla.—Florida Christian Home having plans prepared by J. H. Lynch & Son., archts. and engrs., Dolf Bldg., St. Louis, Mo., for installing new heating system and laundry machinery, also altering present buildings. About $50,000.

Lighting System—Litchfield, Minn.—City plans to rewire for light and power. About $40,000. F. O. Holm, clk.

Transmission Line—Ellendale, N. D.—Ellendale Electric Co. plans to build electric transmission line from here to Guelph and Ludden. About $25,000. G. E. Phillips, mgr.

Tunnels—Colorado—State election Nov. 2, to vote on $18,500,000 bonds, to build following tunnels, Moffat tunnel, 6.4 mi. long, at an elevation of 9,100 ft. at James Peak, on Denver & Salt Lake R.R., cost $6,750,000; Monarch tunnel, 6 mi. long, at elevation of 9,500 ft., near Garfield, on Denver & Rio Grande R.R., $6,336,000; San Juan tunnel near Cumbres Pass on Denver & Rio Grande R.R. All above to be of sufficient size for standard gauge railroad, automobiles and U. S. Army trucks. L. D. Blauvelt, Gas & Electric Bldg., Denver, ch. engr. Colorado Railroad Comn.

BIDS DESIRED

Hot Water System—Bath, N. Y.—Until Sept. 8 by R. P. Bush, pres. Bd. Trustees, New York State Soldiers' and Sailors' Home, installing domestic hot water system

Pier and Approach—Brooklyn, N. Y.—Until Sept. 2, by M. Hulbert, comr. docks, Pier "A," foot of Battery Pl., North River, New York City, furnishing labor and material building pier and approach, north of Barren Island, Jamaica Bay. Alternate bids will be received on wooden pier with wooden approach and rein.-con. pier with wooden approach.

Miscellaneous (Continued)

Coal and Ash Handling Equipment—Buffalo, N. Y.—See "Industrial Works."

Crane—New York, N. Y.—E. F. Callan, 17 Battery Pl., receiving bids for 1 locomotive crane, caterpillar type.

Motor Driven Trucks, etc.—New York, N. Y.—Until Sept. 3, by Bd. Purchase, Municipal Bldg., furnishing and delivering 100 gasoline motor driven trucks with parts as per schedule, and 150 tractors for Street Cleaning Dept.

Pier—New York, N. Y.—Until Sept. 2, by M. Hulbert, comr. docks, Pier "A," foot of Battery Pl., North River, furnishing labor and material rebuilding pier at foot of East 29th St., East River.

Road Materials—New York, N. Y.—Until Aug. 31, by H. H. Curran, pres. Manhattan Boro., furnishing and delivering 2,000 cu.yd. binder stone and 100,000 wood paving blocks.

Underground Cables—New York, N. Y.—Until Sept. 3, by R. E. Enright, police comr., at office of Bookkeepers Office, Headquarters of Police Dept., 240 Centre St., installing new underground cables for installing telephone cable on Manhattan Bridge structure between Manhattan and Brooklyn anchorages to said bridges.

Yard—New York, N. Y.—Until Aug. 31, by J. H. Delaney, comr. Transit Constr., 49 Lafayette St., building yard on Jerome Ave., Route 16, a part of 7th Ave.-Lexington Ave. Rapid Transit R.R., and widening elevated railroad on westerly side of Jerome Ave. between Bedford Park Blvd. Sta. and railroad yard.

Heating System, etc.—Syracuse, N. Y.—Until Sept. 1, by pres. of Bd. Trustees, New York State College of Forestry, repairing heating system in Roosevelt Wild Life Laboratories here.

Riprap—Cape May, N. J.—Until Aug. 31, by Bd. Comrs., furnishing 2,400 ton riprap, f.o.b. at quarry. H. W. Bell, city engr.; advertised in this issue.

Tank—Hightstown, N. J.—Until Aug. 31, by Mayor and Boro. Council, furnishing and erecting 150,000 gal. steel tank on steel tower 90 ft. high to balcony. W. S. Coulter, 114 Liberty St., New York City, engr.; advertised in this issue.

Foundation—Phila., Pa.—Until Sept. 14, by F. H. Cave, dir. Dept. Pub. Wks., City Hall, and Bd. Trustees, building foundation for Free Library on Vine, Wood, 19th and 20th Sts. H. L. Trumbauer, 1406 Land Title Bldg., Phila., archt.; advertised in this issue.

Swimming Pool, etc.—Pittsburgh, Pa.—Until Aug. 31, by City Comptroller, building 48 x 98 ft. concrete swimming pool, also 2 story, 30 x 50 ft. stucco bath house. About $30,000.

Dam, Pump House and Road Diversions—Norfolk, Va.—Until Sept. 21, at office of City Manager, building dam, pump house and road diversions. W. H. Taylor, 3d, dir. pub. wks.; advertised in this issue.

Lighting Equipment—Detroit, Mich.—Until Sept. 15, by G. J. Finn, Comr. Purchases & Supplies, furnishing following materials, freight prepaid to Detroit: 3,000 ft. No. 6 B. & S. "G" solid copper wire, 8-32 in. varnished cambric insulation, covered with asbestos braid; 30,000 ft. No. 6 B. & S. copper wire, stranded 4-32 in. 30% para rubber insulation, double braid; 3,000 ft. No. 6 B. & S. "G" stranded copper wire 8-32 in. 30% para rubber insulation, double braid; 4,000 ft. No. 10 B. & S. "G" stranded copper wire, 2-32 in. 30% para rubber insulation, double braid; hard drawn copper wire, triple braid weatherproof insulation as follows, 5,000 lb. No. 2, 2,000 lb. No. 4 and 30,000 lb. No. 6 B. & S. "G" solid conductor, 1,500 lb. No. 4 B. & S. "G" stranded conductor, 500 lb. No. 10 B. & S. solid conductor; soft drawn copper wire, double braid weatherproof insulation, as follows, 2,000 lb. No. 6 B. & S. "G" stranded conductor, 5,000 lb. No. 12 B. & S. "G" solid conductor.

Paving and Bridge Materials—Cleburne, Tex.—Until Aug. 31, by Comrs. Johnson Co., furnishing 10,000 bbl. portland cement, 600,000 lb. reinforcing steel, 10,000 cu.yd. bitrun concrete gravel, or 10,000 cu.yd. crushed stone or screened and washed gravel, 5,000 cu.yd. concrete sand, f.o.b. cars at Johnson Co. C. White, co. aud.

Street Lighting System—Wichita Falls, Tex.—Until Sept. 1, by H. M. Harrison, secy. Chamber of Commerce, installing complete street lighting system, to include laying 30,245 ft. cable, building 324 concrete bases and erecting 324 lamp standards in Ohio, Indiana, Scott, Lamar, Travis, 7th, 8th, 9th and 10th Sts.

Shore Protection—Three Fathom Harbor, N. S.—Until Aug. 31, by Dept. Pub. Wks., Western Blk., Ottawa, Ont., reconstructing and repairing portion of shore protection, 220 ft. of cribwork, stone filled, 12 ft high by 12 ft. wide, plank decked and close sheathed with 6 x 6 in. sheathing. About $40,000. E. Lafleur, c/o Dept. Pub. Wks., engr.

Breakwater—West Chezzetcook, N. S.—Until Sept. 8, by Dept. Pub. Wks., Western Blk., Ottawa, repairing 215 ft. breakwater here, also removing and rebuilding 3,100 cu.ft. of damaged portion. About $28,000. E. Lafleur, c/o Dept. Pub. Wks., engr.

Wharf—Thessalon, Ont.—Until Sept. 7, by Dept. Pub. Wks., Western Blk., rebuilding superstructure, 142 ft. and 101 ft. by 24½ ft., concrete blocks on cribwork, stone fill. About $30,000. E. Lafleur, c/o Dept. Pub. Wks., engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Road Materials—Boston, Mass.—City received bids Aug. 3 furnishing (a) 40,000 lin.ft. straight edgestone, (b) 3,600 ft. circle stone, (c) 200 corners, from H. E. Fletcher, 31 State St., (a) $1.89 per lin.ft., (b) $2.66, (c) $7.98; Lombard Granite Co., 31 State St., (a) $2.25 and $2.05 per lin.ft., (b) $2.85, (c) $7.40; Rockport Granite Co., (a) $2.15 per lin.ft., (c) $8. Noted Aug. 5.

Heating, Ventilating, Plumbing and Electric Work—West New York (Weehawken P. O.), **N. J.**—Bd. Educ. received bids for heating and ventilating work in P. S. No. 1, from E. Beck, West New York, $60,968; **plumbing,** from A. C. Kreiger, 402 Hackensack Plank Rd., Union, $30,919; electrical work, from W. Coleman, Jersey City, $13,633.

★Third Rail—Phila., Pa.—Dept. City Transit, 1211 Chestnut St., let contract furnishing and delivering 800 gross ton "third" rail for Frankford Elevated R.R., to Phila. Rapid Transit, 810 Dauphin St., $90,559.

★Lake—Pittsburgh, Pa.—City let contract improving Lake Elizabeth, West View Park, to A. V. Purnell, 507 Jarvella St., $32,218. Noted Aug. 5.

★Gas Main—Birmingham, Ala.—Birmingham Ry. Light & Power Co., 1st Ave., will lay 25,000 ft. 16 in. gas mains. About $300,000. Work will be done by day labor. Pipe contract let to U. S. Cast Iron Pipe & Fdry. Co.

Paving Material—St. Paul, Minn.—City received bids furnishing (a) 2,970 bbl. portland cement, (b) 2,227 cu.yd. crushed rock for concrete base, (c) 1,338 cu.yd. concrete sand, (d) 914 cu.yd. fine asphalt sand, (e) 452 cu.yd. coarse asphalt sand, (f) 273 ton limestone dust, (g) 328 ton trap rock, (h) 655 ton binder stone, (i) 7,000 sewer bricks, from St. Paul Builders' Material Co., 606 Ryan Bldg., (a) $4 per bbl., (i) $30 per M.; Stiefel Materials Co., 501 Concord St., (b) $2.90, (c) $1.80; United Materials Co., 118 Endicott Bldg., (c) $1.60, (e) $1.60; J. L. Shiely Co., 7th and St. Peter Sts., (b) $3, (c) $2, (d) $2.25, (e) $1.75; Minnesota Crushed Stone Co., 1500 Johnson St., N.E., Minneapolis, (f) $5.75, (h) $2.75; Trap Rock Co., Bway. and K St., N.E., Minneapolis, (g) $2.45; St. Paul Crushed Stone Co., Stewart and Victoria Aves., (h) $2.75. Noted Aug. 12.

★Safety Deposit Boxes—Denver, Col.—First Natl. Bank, 17th and Stout Sts., let contract building 11,000 safety deposit boxes, to Mosler Safe Co., Grand Blvd., Hamilton, O. About $175,000.

★Pavilion—Pt. Loma, Cal.—See "Buildings."

HIGHWAY—VERMONT

Bids were received by State Highway Comn., Montpelier, (lowest 3) for constructing gravel highway in towns of Mt. Tabor, Dorset and Danby, Project No. 12, Sect. "A," from G. L. Gregoire & Co., Barre; (B) Walter E. Dix Corp., Springfield; (C) Alco Contg. Co., Boston; Sect. "B," from (A) W. E. Dix Corp.; (B) Pascal C. Ricci, Rutland; (C) Alco Contg. Co. The unit bids were as follows:

SECTION A

	A	B	C
26,879 cu.yd. earth excavation	$1 50	$1 40	$1.95
224 cu.yd. rock excavation	6 00	4 00	5.00
3,898 cu.yd. borrow	1 60	1 90	2.00
1,914 cu.yd. sub-base of napped field, or quarry stone	3 50	3 40	3.75
Sub-base of gravel (per cu.yd.)	2 75	3 50	2.50
16,154 cu.yd. gravel surface course	2 70	4 00	3.55
306 cu.yd. concrete, Class A (1-2-4)	35 00	25 00	25.00
385 cu.yd. concrete, Class C (1-3-6)	30 00	20 00	24 00
21,669 lb. reinforcing steel	12	10	.10
9,884 lin.ft. wooden guard rail	70	60	.65
164 lin.ft. 12-in. corrugated pipe culverts	2 50	1 90	2.75
252 lin.ft. 14-in. corrugated pipe culverts	3 00	2 00	3.00
36 lin.ft. 16-in. corrugated pipe culverts	3 00	2 50	4.00
162 lin.ft. 18-in. corrugated pipe culverts	3 50	2 80	4.75
240 lin.ft. relaying pipe culverts	1 00	25	1.50
100 lin.ft. standard underdrain	1 25	1 00	1.75
50 sq.yd. concrete gutter	3 00	2 00	1.50
100 sq.yd. cobble gutter	1 00	1 10	2.00
Cobble gutter grouted with cement mortar (per sq.yd.)	2 50	1 65	2.75
27 sq.yd. paving	2 50	1 50	2.75
3 leaching basins	50 00	25 00	65.00
2 drop inlet grates	10 00	15 00	10.00
10 cu.yd. rip-rap	3 00	2 00	5.00
Extended totals	$132,717	$142,398	$154,606

SECTION B

	A	B	C
20,675 cu.yd. earth excavation	$1.40	$1 50	$2.00
254 cu.yd. rock excavation	4 00	7 75	6.00
530 cu.yd. borrow	1 80	1 25	2.10
978 cu.yd. sub-base of napped field or quarry stone	3 40	3 00	4.00
Sub-base of gravel (per cu.yd.)	3 50	3 40	2.50
16,687 cu.yd. gravel surface course	4 00	4 00	4.20
179 cu.yd. concrete, Class (1-2-4)	23 00	20 00	28.00
323 cu.yd. concrete, Class C (1-3-6)	20 00	20 00	26.00
5,104 lb. reinforcing steel	10	10	.12
11,296 lin.ft. wooden guard rail	55	70	.75
28 lin.ft. 12-in. corrugated pipe culverts	1 90	2 00	3.00
394 lin.ft. 14-in. corrugated pipe culverts	2 00	2 40	3.50
39 lin.ft. 16-in. corrugated pipe culverts	2 50	3 00	4.50
162 lin.ft. 18-in. corrugated pipe culverts	2 80	3 10	6.00
160 lin.ft. relaying pipe culverts	60	40	1.50
100 lin.ft. standard underdrain	1 10	1 00	2.00
50 sq.yd. concrete gutter	2.00	2 00	2.00
100 sq.yd. cobble gutter	1 40	1 00	2.00
Cobble gutter grouted with cement mortar (per sq.yd.)	1 65	2 00	2.50
1 Leaching basin	50 00	30 00	75.00
11 cu.yd. broken stone for blind drains	3 00	2 00	6.00
10 cu.yd. rip-rap	5 00	3 00	5.95
Extended totals	$120,242	$123,829	$143,998

OFFICIAL PROPOSALS

Bids: Aug. 31.

Paving Work

Long Branch, N. J.

For Ocean Avenue pavement and concrete retaining wall to be constructed at Long Branch, N. J.

Notice is hereby given that sealed proposals will be received by the Board of Commissioners of the City of Long Branch, in the County of Monmouth and State of New Jersey, for the paving of Ocean Avenue in said city with Amlesite, Sheet Asphalt, Concrete, Bitulithic National and Topeka upon a concrete foundation, and the building of a concrete retaining wall and bulkhead along portions of said avenue, including those portions of driveways of intersecting streets or alleys that are included within the property line of said avenue above mentioned. Estimated amount of surface pavement required: first section, 24,000 sq.yd.; second section, 65,600 sq.yd.; third section, 43,700 sq.yd. fourth section, 10,000 lin.ft. of concrete retaining wall, and opened and read at the regular meeting of the Board at City Hall on Tuesday, the 31st day of August, 1920, at 10 o'clock a.m. (standard time).

Drawings and specifications and form of bid prepared by J. W. Seaman, City Engineer, are on file in the office of the City Clerk and may be obtained by prospective bidders during business hours upon a deposit of Ten Dollars ($10.00) which will be refunded upon the return of the plans and specifications in good condition at the time the bids are received.

Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, and must be enclosed in sealed envelopes bearing the name and address of bidder and section of the work bid upon on the outside, addressed to "Elmer F. Lawyer, City Clerk," and must be accompanied by a Surety Company certificate stating that said Surety Company will provide the bidder with the required bond, and a certified check for not less than ten per cent of the amount bid on each section of the work as stated in the proposal, drawn to the order of Frank L. Howland, City Treasurer, or cash in an equal amount, and be delivered at the place and on the hour above named.

The standard proposal forms and data may be obtained on application to the engineer at his office 192 Broadway, Long Branch, N. J.

CLARENCE J. HOUSEMAN.
ELMER F. LAWYER, Mayor.
City Clerk.
Dated: Aug. 10, 1920.

Bids: Sept. 3.

Completion of Concrete Viaduct

Mount Vernon, N. Y.

Sealed bids for the completion of Broad Street Viaduct crossing N. Y. Central R.R. tracks and Bronx River between Bronxville and Mount Vernon, N. Y., will be received jointly by the Cities of Yonkers and Mount Vernon and Bronx Parkway Commission, West Pondfield Road, Bronxville, N. Y., until 11.30 a.m., September 3, 1920.

This viaduct was partially constructed under a former contract, and the principal items of work remaining to be done consist of one reinforced-concrete arch of 94 ft. span over the railroad tracks and one reinforced-concrete arch of 85 ft. span east of the railroad, together with spandrel and approach walls, and other miscellaneous work. All piers and abutments were constructed under the former contract.

Pamphlets containing information for bidders, form of proposal, contract, specifications and contract drawings may be obtained from the Bronx Parkway Commission at the above address by depositing $5.00 for each pamphlet.

ELMER L. KINCAID, Mayor
City of Mount Vernon.
WILLIAM J. WALLIN, Mayor.
City of Yonkers.
MADISON GRANT,
WILLIAM W. NILES,
FRANK H. BETHELL,
Commissioners, Bronx Parkway Commission.

The publication of an advertisement on this page is an official notice that bids are wanted from other than local bidders.

It is also a guarantee that maximum competition is invited because Engineering News-Record is the *one* nationally recognized medium for Proposal advertising. Its Searchlight Section is read each week by nearly every worth-while contractor in this country who bids on public work outside his own city.

Official Proposals reaching our office in first mail Wednesday morning (9 o'clock) can usually be published in the issue out the next day. Special price for Official Proposals, 40 cents a line.

Bids: Sept. 22.

Construction of Breakwater

SOUTH PARK COMMISSIONERS
Chicago, Ill.

Sealed proposals will be received by the South Park Commissioners, 57th Street and Cottage Grove Avenue, Chicago, Illinois, until 12:00 o'clock noon, September 22, 1920, for the construction of a wooden pile, stone-filled breakwater along the lake front extending from opposite Eleventh Place to a point near Twenty-fourth Street, a total distance of approximately 7,490 feet. The approximate quantities of material required for the work are as follows:

Round piles 40 to 50 ft. long, 11,385.

Timber (waling and sheet piling), 970,000 ft. B.M.

Quarried stone filling, from one cubic yard in size, down, 90,000 tons.

Bolts, rods and other steel work as required by the plans.

The work will be divided into three sections and bids will be considered upon each section separately or upon the work as a whole.

Plans and specifications may be obtained without cost to responsible bidders by application to the South Park Commissioners' office as above.

Each bid must be accompanied by cash or certified check amounting to 5% of the estimated total of the bid, and the bidder to whom the contract is awarded will be required to execute with the contract a surety company bond, in the sum of 25% of the estimated amount of the contract.

J. F. NEIL, Secretary.

Bids: Sept. 7.

Construction of Storm Sewer

Plainfield, N. J.

Sealed proposals will be received by the Common Council of the City of Plainfield, N. J., at the Council Chambers in said City, on Tuesday, Sept. 7, 1920, at 8:30 p.m., for constructing a Storm Sewer in Central Avenue in said City. The approximate amount of the principal items of the work is as follows:

1,900 lin.ft. sewer 20 to 36 inches in diameter.
640 lin.ft. inlet connections.
6 manholes.
28 inlets.

Plans, specifications and forms of proposal, contract and bond may be obtained from Alexander W. Vars, City Engineer, or John J. Carroll, City Clerk, Municipal Building, Plainfield, N. J.

The Common Council reserves the right to reject any or all bids.

JOHN J. CARROLL,
City Clerk.

Bids: Sept. 10.

Repairing of Road

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION
Trenton, N. J.

Notice is hereby given that sealed bids will be received by the State Highway Commission of New Jersey for the repair of the following:

State Highway Route No. 1, Highland Park to Hotel Pine, patching with 2-in. bituminous concrete surface, grade W, estimated 8,000 square yards.

Bids will be opened and read in public at the office of the State Highway Commission, Broad Street Bank Bldg., Trenton, N. J., on Friday, Sept. 10, 1920, at 10:30 p.m. (Eastern Standard time).

Specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department at Trenton, N. J., and may be inspected by prospective bidders. Specifications will be furnished on deposit of ten dollars ($10) upon application to the State Highway Department. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications, same to be inclosed in sealed envelopes bearing the name and address of bidder and name and section of route on the outside, addressed to

START HIGHWAY COMMISSION,
Broad Street Bank Bldg.,
Trenton, New Jersey.

and must be accompanied by a certified check for not less than ten per cent (10%) of the amount of the bid, and be delivered at the above place on or before the hour named. Copies of the standard proposal form will be furnished on application.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in, and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications.

By order of the STATE HIGHWAY COMMISSION.

A. LEE GROVER,
Chief Clerk.

Bids: Sept. 21.

Dam, Pump House and Road Diversions

Norfolk, Va.

Sealed proposals will be received at the office of the city manager of the city of Norfolk, Va., until 12 o'clock noon, on the 21st day of Sept., 1920, for a dam, pump house and road diversions.

The work includes 11,000 cubic yards, more or less, of excavation below mean high tide; 150,000 cubic yards, more or less, of excavation for embankments for dam and road diversions; 3,500 cubic yards, more or less, of reinforced concrete; 13,000 linear feet, more or less, of eight-inch steel sheet piling; the construction of several small highway bridges; a pump house; an intake tower; a pile and timber wharf, and sundry piping and other appurtenances to the foregoing items.

Instruction to bidders, form of proposal, contract and form of bond, and plans and specifications may be inspected at the office of the Director of Public Works, Norfolk, Va., or at the office of the Consulting Engineer, Dabney H. Maury, 1445 Monadnock Block, Chicago, Ill., and a complete set of all of the above papers may be obtained either from the Director of Public Works or from the consulting engineer upon application accompanied by a check or postal order for twenty dollars, payable to B. Gray Tunstall, City Treasurer, which amount will be refunded to the party depositing it upon return of all of the foregoing papers in good order.

A certified check on some bank in the city of Norfolk, in the sum of $4,000.00, payable to B. Gray Tunstall, City Treasurer, must accompany each bid, subject to the conditions expressed in the form of proposal.

WALTER H. TAYLOR, III.,
Director of Public Works.